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ABSTRACT

This report presents data, describing mostly on-site institutional resources, from the 118 U.S. and Canadian research libraries that were members of the Association of Research Libraries (ARL) during the 1986-87 fiscal year. The following information is included in the document: (1) ARL library data tables reflecting data on collections, interlibrary loans, personnel, and expenditures of each of the 118 research libraries; (2) an analysis of selected variables which summarizes the basic data in the ARL library data tables; (3) Ph.D., faculty, and enrollment statistics; (4) summary of rank order tables of university libraries; (5) rank order tables of university libraries including such data as volumes in library, current serials, materials expenditures, monographs purchased and expenditures for monographs, total items borrowed and loaned, and professional and nonprofessional staff; (6) the ARL statistics questionnaire, 1986-1987; (7) footnotes to the ARL statistics, 1986-1987; and (8) "library expenditures as percentages of university expenditures" (a supplemental separately-issued four-page special report). (CGD)

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ARL STATISTICS

1986-87

**A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND EIGHTEEN MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES**

Compiled by
Nicola Daval
and
Margaret McConnell

**ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1988**

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INTRODUCTION

The 1986-87 *ARL Statistics* presents data from the 118 U.S. and Canadian research libraries that were members of the Association of Research Libraries during the 1986-87 fiscal year. The ARL membership consists of 106 university libraries and 12 public or private, independent research libraries.

Rising serial prices continue to be a major concern of research libraries, and the 1986-87 data show that the crisis is not abating. Median expenditures for serials by ARL's 106 university library members were 18.2% higher than 1985-86, while the number of titles received grew by only 2%. Over the past ten years, median serial expenditures have averaged an 11.6% increase each year, while the number of current serial titles received increased an average of 1.2% per year.

Beginning in 1985-86, ARL began collecting data which allows calculation of a rough price index for monographs and serials. Using median figures for university libraries, not only are libraries as a whole spending more, but the unit costs of both serials (per title) and monographs (per volume) are going up: serials by approximately 17.2% per title over 1985-86, and monographs approximately 7.8% per volume over 1985-86. As costs increase, serials expenditures are claiming a larger portion of the library materials budget. In 1975, the median figure for serials expenditures was about 48% of total library materials expenditures. That number continued to grow until it was 58% in 1981. The rate then dropped steadily until 1986, when it was 52%. In just one year, however, serials expenditures have risen to 56% of the library materials budget--almost back to their highest point. Clearly, if serials continue to demand a larger proportion of the library materials budget, there will be a significant impact on research libraries and the resources they are able to provide for scholars in the future.

Expenditures for ARL's 118 member libraries as a whole were over $1.5 billion in 1986-87, a 7.9% increase over 1985-86 expenditures. During 1986-87, the collections of these libraries, which now number almost 328 million volumes, grew only 2%, with 4.4% fewer volumes added than last year; expenditures for these materials increased by more than 9%. The number of serial titles received stayed virtually the same at 3.4 million, but again, serials expenditures increased over 18%. The salaries and wages paid by ARL libraries increased by 6.1%, while the number of staff increased by 1.8%.

Figures for ARL's 106 university libraries paralleled those for the ARL membership as a whole. The total number of volumes held by these libraries increased by just over 2% to over 280 million. Expenditures for materials increased 8.8%, but 1.4% fewer volumes were added than in 1985-86. The size of staff was relatively stable, with expenditures for salaries and wages increasing by 6.1%. Total expenditures, now over $1.1 billion, increased 7.7% over last year. The median ARL university library, which holds about 2.1 million volumes, spent 14% more for library materials, but increased its holdings by only 2.3% (2.8% fewer added volumes than 1985-86), and, as noted above, its serials by only 1.2%.

The last decade or so has seen a slight shift in the allocation of resources in ARL university libraries. Library materials, which accounted for about 31% of the library budget in 1975, claimed about 34% in 1987. Total salaries and wages were 58% in 1975, but decreased fairly steadily to 51% in 1987. Binding and Other Operating Expenditures, a catch-all category for nonmaterial and nonsalary expenditures (e.g., automation expenditures), rose from 11% in 1975 to about 15% in 1987.

Changes in practice at the Center for Education Statistics affect some of the data on

enrollments in this publication. Beginning with the Fall 1986 data, the "Integrated Postsecondary Education Data Survey" (IPEDS) asks for head count rather than FTE for part-time students. For this reason, statistics for part-time enrollment are not consistent with the figures included in previous years' *ARL Statistics*.

As in past years, the Committee on ARL Statistics has continued to work on clarifying definitions and instructions which have been subject to misinterpretation,[1] and encouraging member libraries to bring their reporting into full compliance with the ARL definitions. Data submitted by member libraries is reviewed to ensure accuracy and consistency, and to identify and explain anomalies. Because of changes in data elements over the past two years, and the adjustments a number of libraries have made in their reporting procedures to be more consistent with the ARL definitions, care should be used in comparing this year's data to data collected in previous years. For example, a number of libraries have discovered that their treatment of government documents was not consistent with ARL's definitions and have adjusted their figures for volumes held, current serials, and microform holdings accordingly. In some cases, this more accurate reporting has resulted in changes in relative position in the rank order tables.

While most of the data contained in this publication describe on-site institutional resources, the Committee on ARL Statistics is studying various ways of measuring access to and use of additional resources. Some of the data supplied by members in several supplementary statistics surveys will be useful in determining new data categories. Some of these new measures will be reflected gradually in ARL's annual questionnaire.

Those using the *ARL Statistics* to compare individual institutions will need to consult the symbols indicated on the "ARL Library Data Tables" and the "Footnotes." Although the definitions and procedures used in the Statistics questionnaire aim at achieving consistency, as noted above, variant reporting practices do exist among ARL libraries. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the *ARL Statistics*; the exchange rate use for 1986-87 is 1.3602 Canadian dollars to one U.S. dollar.[2]

The rank order tables presented in this publication are based on quantitative data supplied by ARL member libraries. They are not indicative of qualitative factors, and, therefore, should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Thomas Shaughnessy, Director
University of Missouri, Columbia, Libraries, and
Chair, Committee on ARL Statistics

Nicola Daval
ARL Program Officer
March 1988

Notes

1. The survey form and instructions, including definitions, for the 1986-87 *ARL Statistics* are reprinted on pages 55-62.

2. The rate used is the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1986-June 1987. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the *ARL Statistics*.

ARL LIBRARY DATA TABLES

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
ALABAMA	GLM+	1	1,693,117	40,867	38,252	20,948	17,102	287	17,389	1,236,456
ALBERTA	BLM+	2	2,658,752	93,512	80,515	37,258	19,684	1,738	21,422	2,400,285
ARIZONA	LM+	3	3,239,055	104,623	99,574	72,807	28,075	3,348	31,423	3,380,759
ARIZONA STATE	BL+	4	2,215,376	122,690	107,006	U/A	U/A	U/A	31,366	2,568,423
BOSTON	GLM+	5	1,622,336	54,674	41,928	21,831	17,577	11,600	29,177	2,466,264
BRIGHAM YOUNG	+	6	1,863,224	63,582	61,027	82,028	10,708	7,139	17,847	1,522,450
BRITISH COLUMBIA	GLM	7	2,639,439	88,131	83,772	59,703	18,643	4,190	22,833	873,119
BROWN	b+	8	2,065,334	51,046	49,865	43,176	13,212	2,258	15,470	1,010,973
CALIF.,BERKELEY	L+	9	7,031,934	206,181	186,202	U/A	U/A	U/A	99,065	3,592,199
CALIF.,DAVIS	bLM+	10	2,159,570	86,492	77,442	56,783	37,683	12,321	50,004	2,479,110
CALIF.,IRVINE	GM+	11	1,306,730	68,400	67,600	32,258	16,272	1,097	17,369	1,219,135
CALIF.,LOS ANGELES	LM+	12	5,625,521	257,027	178,352	U/A	U/A	U/A	93,467	4,098,607
CALIF.,RIVERSIDE	+	13	1,303,872	55,394	53,500	40,500	9,767	3,848	13,615	1,154,347
CALIF.,SAN DIEGO	GM+	14	1,810,844	74,428	50,230	51,633	U/A	U/A	20,273	1,224,024
CALIF.,SANTA BARBARA	bG+	15	1,806,039	62,203	60,236	U/A	U/A	U/A	15,600	2,119,074
CASE WESTERN RESERVE	GLM+	16	1,512,133	35,812	18,554	18,460	13,200	654	13,854	606,631
CHICAGO	bLM+	17	4,865,137	113,277	109,061	68,707	U/A	U/A	53,214	1,428,944
CINCINNATI	GLM+	18	1,581,754	55,650	53,874	U/A	U/A	U/A	19,588	1,953,733
COLORADO	GL+	19	2,146,136	58,140	49,182	23,663	13,044	711	13,755	1,033,108
COLORADO STATE	G+	20	1,103,752	34,281	32,648	14,974	8,573	3,445	12,018	154,940

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
1	7,573	5,214	51	75	50	176	750,456	1,423,350	27,404	196,873
2	15,702	13,320	86	278	37	401	765,211	2,349,337	U/A	U/A
3	38,604	7,216	97	179	90	366	1,391,222	2,727,719	53,598	318,320
4	30,964	10,244	86	190	75	351	2,428,262	1,936,319	107,499	29,960
5	20,422	40,278	64	146	68	278	921,566	1,697,003	138,689	87,917
6	9,767	11,421	88	46	166	300	1,428,249	1,247,709	227,730	0
7	19,035	10,519	103	269	47	419	1,798,469	1,941,444	U/A	U/A
8	9,858	5,402	75	103	65	243	1,055,875	1,272,415	U/A	N/A
9	38,054	18,946	172	296	288	756	2,520,632	3,542,511	U/A	U/A
10	32,466	7,571	70	191	63	324	1,676,615	2,533,622	121,777	0
11	13,606	8,430	54	106	64	224	1,050,612	1,835,253	237,648	U/A
12	56,850	8,467	219	293	218	730	4,274,884	3,176,751	U/A	U/A
13	8,793	8,627	34	104	41	179	1,005,098	1,167,253	177,206	200
14	16,173	7,171	71	166	79	316	1,871,457	1,454,297	301,268	34,637
15	7,937	10,070	57	139	43	239	1,315,640	1,699,262	268,689	U/A
16	36,204	6,411	66	80	28	174	513,006	1,324,781	90,990	92,085
17	33,603	6,876	75	189	72	336	1,972,256	2,125,075	U/A	0
18	25,904	9,030	78	139	80	297	1,229,417	1,894,002	U/A	U/A
19	16,621	8,816	47	100	57	204	683,815	1,705,558	127,739	121,745
20	13,055	11,922	42	71	26	139	545,840	902,541	35,246	231,484

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,398,083	78,896	1,069,795	859,488	348,432	2,277,715	489,328	5,244,022	ALABAMA
3,114,548	100,359	2,432,835	4,451,381	427,143	7,311,359	1,258,820	11,785,086	ALBERTA
4,490,859	343,901	2,445,243	2,718,655	633,015	5,796,913	1,176,164	11,807,837	ARIZONA
4,502,040	296,437	2,084,218	2,723,728	356,147	5,164,093	1,473,936	11,436,506	ARIZONA STATE
2,845,175	142,117	1,826,356	1,960,624	311,491	4,098,471	1,904,238	8,990,001	BOSTON
2,903,688	102,407	2,163,316	659,710	1,249,266	4,072,292	878,860	7,957,247	BRIGHAM YOUNG
3,739,913	145,676	2,893,427	3,621,395	625,724	7,140,546	867,289	11,893,424	BRITISH COLUMBIA
2,328,290	148,576	1,848,316	1,440,975	303,863	3,593,154	2,155,454	8,225,474	BROWN
6,063,143	622,826	U/A	U/A	U/A	16,975,231	3,336,969	26,998,169	CALIF.,BERKELEY
4,332,014	350,639	2,456,347	3,750,273	666,040	6,872,660	1,253,315	12,808,628	CALIF.,DAVIS
3,123,513	251,469	1,954,323	2,344,132	791,774	5,090,229	1,373,219	9,838,430	CALIF.,IRVINE
7,451,635	645,769	7,506,392	6,335,651	2,278,731	16,120,774	5,210,771	29,428,949	CALIF.,LOS ANGELES
2,349,757	152,595	1,225,234	1,784,927	501,920	3,512,081	615,526	6,629,959	CALIF.,RIVERSIDE
3,661,659	362,885	2,247,803	3,226,746	850,202	6,324,751	1,617,881	11,967,176	CALIF.,SAN DIEGO
3,283,591	227,845	2,230,668	2,747,352	741,762	5,719,782	1,145,663	10,376,881	CALIF.,SANTA BARBARA
2,020,862	84,980	1,768,891	1,108,530	192,001	3,069,422	709,128	5,884,392	CASE WESTERN RESERVE
4,097,331	320,891	1,796,635	3,568,137	756,239	6,121,011	2,885,680	13,424,913	CHICAGO
3,123,419	144,476	U/A	U/A	587,163	5,366,769	1,884,425	10,519,089	CINCINNATI
2,638,857	115,745	1,359,649	2,006,831	513,178	3,879,658	546,867	7,181,127	COLORADO
1,715,111	90,000	1,042,197	1,295,830	124,876	2,462,903	691,461	4,959,475	COLORADO STATE

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
COLUMBIA	LM+	21	5,625,925	121,276	74,206	42,996	23,963	18,816	42,779	3,522,715
CONNECTICUT	BLM+	22	2,074,443	65,403	61,400	U/A	U/A	U/A	21,349	2,355,577
CORNELL	BL+	23	4,818,377	136,220	119,489	U/A	U/A	U/A	58,722	4,293,561
DARTMOUTH	GM+	24	1,664,847	58,869	50,832	U/A	16,518	3,896	20,414	1,925,486
DELAWARE	G+	25	1,778,915	55,450	55,450	U/A	U/A	U/A	21,637	1,535,016
DUKE	GLM+	26	3,591,197	92,215	82,571	48,305	25,004	9,448	34,452	1,211,947
EMORY	LM+	27	2,006,423	58,707	55,322	U/A	U/A	U/A	18,383	1,588,148
FLORIDA	GLM+	28	2,605,601	79,610	66,184	44,627	25,727	3,785	29,512	2,701,120
FLORIDA STATE	GBL+	29	1,667,720	45,718	43,582	U/A	15,473	2,226	17,699	2,526,918
GEORGETOWN	GLM+	30	1,613,442	66,530	62,938	34,643	18,968	2,067	21,035	1,603,523
GEORGIA	BL+	31	2,604,601	93,871	93,871	N/A	42,990	13,159	56,148	3,594,159
GEORGIA TECH	+	32	1 532,193	68,582	63,555	4,499	19,011	9,794	28,805	2,766,955
GUELPH	bG+	33	1,706,238	71,628	71,628	21,869	U/A	U/A	10,219	1,027,115
HARVARD	LM+	34	11,284,170	232,559	195,319	U/A	U/A	U/A	102,000	4,570,476
HAWAII	G+	35	2,164,497	77,653	75,321	U/A	26,060	6,929	32,989	2,350,040
HOUSTON	GL+	36	1,526,291	41,561	40,585	22,560	22,003	908	22,911	2,925,459
HOWARD	GLM+	37	1,618,259	83,680	76,922	36,929	24,798	1,977	26,775	2,437,773
ILLINOIS	GL+	38	7,190,443	193,407	190,273	78,056	U/A	U/A	93,913	3,064,421
INDIANA	L+	39	3,881,945	115,003	94,983	49,900	33,645	330	33,975	1,280,009
IOWA	LM+	40	2,839,825	89,049	84,974	85,858	24,413	2,573	26,986	2,894,806

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

1.

ARL LIBRARY DATA TABLE

Univ. No.	LIBRARY [illegible]	[illegible]	PERSONNEL [illegible]	[illegible]	[illegible]	[illegible]	EXPENDITURES Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	15	16	17	18
21	[illegible]	[illegible]	[illegible]	[illegible]	191	624	2,333,496	2,659,835	174,513	74,555
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	225	1,350,229	1,569,732	U/A	U/A
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	532	U/A	U/A	U/A	U/A
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	182	297,614	1,560,871	148,698	U/A
25	9,763	3,933	54	110	43	207	1,804,676	1,396,084	U/A	0
26	30,286	5,275	95	173	51	319	1,598,277	2,222,916	211,850	185,210
27	21,275	5,756	64	132	52	248	1,192,387	1,550,964	329,048	96,448
28	33 498	7,570	101	169	134	404	1,549,817	1,769,353	440,066	191,864
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	236	1,422,155	1,536,745	73,493	75,703
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	285	1,167,740	1,293,757	355,194	142,169
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	383	970,838	2,799,485	217,754	0
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	112	232,919	1,033,131	191,055	81,586
33	2,666	3,450	33	108	14	155	465,212	925,073	232,514	U/A
34	32,864	8,409	327	577	126	1,030	4,257,299	3,940,596	1,178,451	36,199
35	10,381	2,548	66	100	54	220	892,310	1,486,529	95,649	U/A
36	15,315	8,007	43	83	47	173	593,354	1,688,912	27,356	149,829
37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	262	1,495,240	2,470,633	80,378	37,000
38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	547	1,699,280	2,818,445	U/A	181,369
39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	521	1,027,279	2,194,635	455,642	0
40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	259	1,340,028	2,046,781	98,426	308,426

N/A = Not Applicable [illegible] = Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
20	20	21	22	23	24	25	26	
5,040,999	591,957	5,111,107	5,059,396	1,117,818	11,288,321	3,186,353	20,008,645	COLUMBIA
2,909,965	160,631	N/A	N/A	N/A	4,743,067	887,561	8,701,223	CONNECTICUT
5,611,681	194,278	4,493,818	3,650,136	613,343	8,757,297	2,942,931	17,517,507	CORNELL
2,504,185	91,832	1,135,279	1,574,014	256,752	2,966,045	873,521	6,438,581	DARTMOUTH
3,200,760	152,814	1,301,612	1,371,113	274,823	2,947,548	1,061,841	7,362,963	DELAWARE
4,218,253	164,387	2,801,200	2,615,496	269,074	5,685,770	1,330,367	11,398,777	DUKE
3,168,847	122,724	1,911,428	1,897,521	485,014	4,293,963	1,475,763	9,061,297	EMORY
3,951,100	229,367	2,565,272	2,138,248	889,244	5,592,764	1,179,302	10,952,533	FLORIDA
3,108,096	161,680	1,439,137	1,155,827	399,330	2,994,294	393,272	6,657,342	FLORIDA STATE
2,958,860	149,965	2,026,376	1,904,374	716,119	4,646,869	1,393,771	9,149,465	GEORGETOWN
3,997,077	226,889	1,939,740	2,576,040	490,325	5,006,155	1,378,939	10,609,060	GEORGIA
1,538,691	88,368	1,259,463	530,263	128,841	1,918,567	608,533	4,154,159	GEORGIA TECH
1,622,799	64,524	1,078,958	1,483,282	101,122	2,663,362	136,822	4,487,507	GUELPH
9,412,545	694,503	9,582,966	8,844,034	966,865	19,393,865	5,291,826	34,792,739	HARVARD
2,474,488	176,886	2,137,272	1,738,171	519,666	4,395,109	989,219	8,035,702	HAWAII
2,459,451	69,120	1,161,333	1,237,162	444,002	2,842,497	574,102	5,945,170	HOUSTON
4,097,701	133,437	2,152,082	2,571,674	257,823	4,981,579	833,568	10,045,835	HOWARD
4,690,094	251,617	4,138,496	3,598,941	766,560	8,503,997	1,911,970	15,346,678	ILLINOIS
4,271,556	52,131	3,097,370	2,828,738	886,924	6,813,032	1,612,427	12,935,746	INDIANA
4,294,461	180,197	2,403,492	1,460,985	520,968	4,385,445	959,279	9,829,382	IOWA

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
IOWA STATE	+	41	1,708,592	55,895	45,357	24,911	14,127	6,117	20,244	1,957,937
JOHNS HOPKINS	M+	42	2,670,600	78,204	52,392	43,658	15,641	4,536	20,177	1,391,486
KANSAS	GLM+	43	2,620,805	70,925	69,282	45,129	17,764	7,981	25,745	1,865,867
KENT STATE	G+	44	1,638,383	30,133	28,785	21,517	6,849	500	7,349	764,952
KENTUCKY	GLM+	45	2,043,393	54,674	50,894	22,910	U/A	U/A	20,759	2,091,475
LAVAL	+	46	1,595,553	57,785	53,893	23,542	10,361	3,781	14,142	718,667
LOUISIANA STATE	GL+	47	2,270,617	61,895	59,859	31,479	19,179	4,148	23,327	1,354,837
MCGILL	bGLM+	48	2,390,943	62,640	43,719	37,834	14,754	3,508	18,262	870,989
MCMASTER	GM+	49	1,258,534	47,942	40,464	30,640	10,541	657	11,198	382,263
MANITOBA	GLM+	50	1,431,307	34,692	27,367	16,212	10,794	1,226	12,020	930,793
MARYLAND	G+	51	1,856,510	83,642	76,455	35,120	19,266	2,490	21,756	3,521,598
MASSACHUSETTS	G+	52	2,199,402	71,030	69,814	37,710	14,012	1,942	15,954	1,523,919
MIT	+	53	2,062,818	54,498	33,363	21,290	9,491	11,805	21,296	1,563,722
MIAMI	GLM+	54	1,576,560	53,251	23,653	29,338	U/A	U/A	16,487	938,192
MICHIGAN	LM+	55	6,019,919	135,011	99,343	U/A	34,309	32,806	67,115	3,261,743
MICHIGAN STATE	G+	56	2,431,942	86,578	75,681	50,057	15,752	3,423	19,175	1,500,911
MINNESOTA	bLM+	57	4,382,696	112,850	94,671	U/A	29,642	8,988	38,630	2,746,9?
MISSOURI	GLM+	58	2,365,235	53,129	47,223	17,684	13,398	4,009	17,407	4,198,3(
NEBRASKA	L+	59	1,889,500	59,785	55,942	26,124	U/A	U/A	23,511	2,109,7?
NEW MEXICO	G+	60	1,276,889	35,190	31,400	24,602	U/A	U/A	10,669	2,863,7?

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
41	22,610	5,210	45	107	52	204	855,090	1,770,567	39,365	44,075
42	16,318	14,406	88	182	99	369	1,103,959	1,863,432	79,612	300,088
43	35,985	17,136	87	121	84	292	1,467,897	2,014,119	16,504	36,147
44	11,783	7,387	40	93	50	183	419,962	724,658	139,076	0
45	19,659	10,457	66	122	78	266	900,304	1,694,712	69,654	276,031
46	11,936	9,674	70	193	7	270	702,573	1,249,074	198,219	98,851
47	9,638	4,464	61	115	103	279	1,103,535	2,197,811	26,451	165,696
48	31,662	7,571	78	207	39	324	972,461	1,290,881	571,634	472,113
49	11,522	6,933	38	140	15	193	1,155,050	1,443,530	U/A	5,415
50	12,337	5,163	56	157	24	237	433,925	1,278,036	U/A	U/A
51	14,240	3,334	83	149	89	321	1,145,580	1,869,666	350,746	0
52	13,879	7,270	56	127	53	236	1,554,132	1,549,260	1,167,074	509,056
53	15,787	3,584	87	151	37	275	700,808	1,527,514	47,011	191,349
54	19,274	10,975	70	122	51	243	1,064,484	1,625,249	46,691	7,306
55	23,063	11,096	133	273	142	548	U/A	3,276,806	U/A	U/A
56	11,245	5,281	79	132	109	320	1,592,167	1,777,627	U/A	U/A
57	132,002	12,625	121	173	134	428	1,582,180	2,859,863	70,023	43,724
58	26,891	7,189	60	131	58	249	786,414	1,373,144	20,075	106,484
59	11,028	5,563	53	109	44	206	782,278	2,115,082	U/A	28,027
60	9,614	5,485	46	107	87	240	649,706	1,125,845	213,491	133,444

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,709,097	156,432	1,364,035	1,477,705	375,725	3,217,465	366,778	6,449,772	IOWA STATE
3,347,091	120,853	2,360,431	2,745,248	380,005	5,485,684	1,877,845	10,831,473	JOHNS HOPKINS
3,534,667	121,617	2,068,871	1,969,583	567,869	4,606,323	1,935,324	10,197,931	KANSAS
1,283,696	71,813	1,375,649	1,780,933	350,670	3,507,252	1,514,655	6,377,416	KENT STATE
2,940,701	113,192	1,634,783	1,646,830	586,539	3,868,152	1,360,116	8,282,161	KENTUCKY
2,248,717	38,181	2,319,004	3,070,685	105,926	5,495,615	684,099	8,466,612	LAVAL
3,493,493	195,541	1,802,361	1,231,170	770,792	3,804,323	601,725	8,095,082	LOUISIANA STATE
3,307,089	127,040	2,439,312	3,537,110	370,058	6,346,480	1,202,250	10,982,859	MCGILL
2,603,995	67,800	1,097,191	2,041,580	257,754	3,396,525	418,204	6,486,524	MCMASTER
1,711,961	78,740	1,630,677	2,092,797	290,042	4,013,516	437,304	6,241,521	MANITOBA
3,365,992	244,340	2,424,773	2,338,584	728,291	5,491,648	1,832,367	10,934,347	MARYLAND
4,779,522	92,332	1,998,134	2,103,139	236,574	4,337,847	615,694	9,825,395	MASSACHUSETTS
2,466,682	133,595	2,347,322	2,399,153	377,812	5,124,287	1,567,816	9,292,380	MIT
2,743,730	178,294	1,808,026	1,543,967	374,060	3,726,053	1,323,107	7,921,184	MIAMI
6,696,724	294,599	4,141,545	4,137,732	1,103,931	9,383,208	2,476,779	18,851,310	MICHIGAN
3,369,794	198,760	2,259,128	2,140,611	1,052,788	5,452,527	1,376,464	10,397,545	MICHIGAN STATE
4,555,790	387,028	3,931,026	3,425,658	1,705,523	9,062,207	3,876,519	17,881,544	MINNESOTA
2,286,117	164,992	1,347,130	1,287,390	409,504	3,044,024	946,046	6,441,179	MISSOURI
2,925,387	111,512	1,259,634	1,262,369	307,772	2,829,775	562,710	6,429,384	NEBRASKA
2,122,486	80,979	1,237,129	1,646,107	695,748	3,578,984	740,243	6,522,692	NEW MEXICO

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
NEW YORK	LM+	61	2,920,175	72,755	52,828	35,245	27,919	4,574	32,493	2,234,033
NORTH CAROLINA	LM+	62	3,414,643	118,308	112,892	63,850	25,173	19,624	44,797	2,629,539
NORTH CAROLINA STATE	GM+	63	1,201,552	56,661	47,832	31,684	12,601	2,772	15,373	2,772,551
NORTHWESTERN	bLM+	64	3,270,365	80,511	63,667	32,402	U/A	U/A	32,304	1,752,790
NOTRE DAME	GL+	65	1,794,564	57,460	49,159	27,036	U/A	U/A	15,871	1,089,486
OHIO STATE	bLM+	66	4,169,610	109,546	92,035	66,630	23,059	8,703	31,762	2,866,174
OKLAHOMA	GLM+	67	2,192,100	43,371	38,631	17,867	16,683	734	17,417	2,561,362
OKLAHOMA STATE	G+	68	1,440,780	31,801	20,162	12,861	9,024	1,077	10,101	693,731
OREGON	GL+	69	1,765,633	60,452	59,021	54,913	15,477	5,059	20,536	1,628,570
PENNSYLVANIA	LM+	70	3,442,389	85,949	65,488	U/A	U/A	U/A	28,435	1,008,715
PENNSYLVANIA STATE	B+	71	2,888,342	145,074	79,789	U/A	U/A	U/A	29,080	2,802,163
PITTSBURGH	LM+	72	2,741,834	82,076	80,638	U/A	U/A	U/A	23,098	2,151,218
PRINCETON	+	73	3,961,415	109,948	104,777	68,266	U/A	U/A	33,140	2,217,529
PURDUE	G+	74	1,746,862	63,237	51,144	16,533	17,900	2,984	20,884	1,683,836
QUEEN'S	bGLM+	75	1,672,271	40,470	39,803	26,276	U/A	U/A	15,560	1,517,341
RICE	b+	76	1,323,470	47,935	47,273	U/A	U/A	U/A	11,721	1,741,570
ROCHESTER	BM+	77	2,549,057	47,245	36,229	19,063	12,059	1,817	13,876	2,270,461
RUTGERS	GB+	78	2,407,696	114,490	107,404	50,719	U/A	U/A	19,041	2,437,099
SASKATCHEWAN	GLM+	79	1,300,773	48,877	44,096	15,144	U/A	U/A	10,092	1,725,938
SOUTH CAROLINA	LM+	80	2,225,572	58,435	49,806	21,386	U/A	U/A	19,163	2,327,945

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTER-LIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non-Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
61	10,200	8,226	106	188	73	367	1,119,545	2,304,771	379,293	199,911
62	20,380	5,284	114	202	93	409	2,011,676	2,378,345	363,529	0
63	24,592	4,652	43	127	59	224	828,709	1,651,237	272,036	173,046
64	17,171	11,270	108	154	94	356	956,640	1,949,462	68,137	52,140
65	16,831	8,818	39	111	30	180	1,026,245	1,246,460	206,823	63,546
66	27,863	11,715	114	210	131	455	2,086,743	2,725,416	U/A	U/A
67	27,049	13,974	48	79	71	198	629,423	1,569,969	74,281	81,869
68	10,103	4,745	40	69	55	164	443,736	1,073,965	26,438	36,550
69	12,878	6,358	50	87	74	211	971,517	1,340,333	U/A	277,665
70	15,670	13,260	108	167	97	372	1,191,728	2,084,191	U/A	U/A
71	21,042	10,920	113	274	73	460	1,498,064	2,530,323	U/A	0
72	15,911	7,985	82	170	75	332	1,105,642	1,931,342	90,641	8,398
73	7,717	6,324	104	223	53	380	2,465,555	1,891,118	383,336	0
74	11,007	6,805	59	149	57	265	749,226	1,891,688	44,226	0
75	5,030	6,022	39	160	24	223	841,744	1,401,227	7,072	118,438
76	14,642	2,998	40	73	32	145	787,309	1,117,640	12,679	117,578
77	24,040	7,602	57	109	56	222	1,011,343	1,800,579	8,000	216,891
78	16,595	11,883	100	240	125	465	1,538,841	2,306,504	129,342	126,189
79	10,301	13,098	36	127	11	174	622,660	1,514,179	U/A	U/A
80	14,117	5,798	59	111	28	198	688,036	1,535,505	U/A	U/A

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
4,003,520	238,581	3,396,015	3,128,255	628,274	7,152,544	2,583,913	13,978,558	NEW YORK
4,753,550	248,489	3,443,963	3,123,231	499,863	7,067,057	1,899,587	13,967,683	NORTH CAROLINA
2,925,028	128,369	1,179,290	1,903,606	404,452	3,487,348	678,442	7,219,187	NORTH CAROLINA STATE
3,026,379	193,201	3,177,924	2,283,145	748,231	6,209,300	1,221,529	10,650,409	NORTHWESTERN
2,543,074	119,839	1,198,788	1,449,686	180,676	2,829,150	742,552	6,234,615	NOTRE DAME
4,812,159	243,849	3,292,607	3,574,172	1,080,283	7,947,062	2,394,774	15,397,844	OHIO STATE
2,355,542	73,482	1,182,930	1,008,892	528,943	2,720,765	596,055	5,745,844	OKLAHOMA
1,580,689	84,270	1,056,796	736,451	372,247	2,165,494	492,101	4,322,554	OKLAHOMA STATE
2,589,515	201,925	1,310,708	1,217,951	515,560	3,043,719	573,507	6,408,666	OREGON
3,275,919	323,385	3,184,571	3,225,284	651,295	7,061,150	1,938,376	12,599,830	PENNSYLVANIA
4,028,387	233,111	U/A	U/A	U/A	8,077,636	2,556,275	14,895,629	PENNSYLVANIA STATE
3,136,023	166,619	U/A	U/A	U/A	5,299,109	2,561,403	11,162,154	PITTSBURGH
4,740,009	272,724	3,150,758	3,408,406	444,527	7,003,691	1,745,801	13,762,225	PRINCETON
2,685,140	125,723	1,278,599	2,159,262	394,381	3,832,242	707,494	7,350,599	PURDUE
2,368,481	88,240	U/A	U/A	159,371	3,398,804	309,088	6,164,613	QUEEN'S
2,035,206	45,744	1,104,333	827,578	122,284	2,054,195	691,808	4,826,953	RICE
3,036,813	112,649	1,805,904	1,593,767	378,253	3,777,919	845,058	7,772,439	ROCHESTER
4,100,876	387,108	3,941,229	4,432,256	1,169,072	9,542,557	1,633,840	15,664,381	RUTGERS
2,136,839	73,742	967,557	1,985,379	143,250	3,096,186	312,880	5,619,647	SASKATCHEWAN
2,223,541	117,058	1,655,171	1,539,386	209,663	3,404,220	407,541	6,152,360	SOUTH CAROLINA

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
SOUTHERN CALIFORNIA	BLM+	81	2,484,152	57,372	43,050	26,204	13,979	19,092	33,071	1,937,633
SOUTHERN ILLINOIS	GL+	82	1,950,400	57,135	51,471	20,688	U/A	U/A	21,283	2,407,632
STANFORD	BLM+	83	5,598,363	167,055	150,494	U/A	U/A	U/A	49,780	2,974,699
SUNY-ALBANY	GB+	84	1,194,962	45,333	40,386	21,109	16,399	0	16,399	547,592
SUNY-BUFFALO	LM+	85	2,436,454	72,120	65,273	U/A	19,245	4,840	24,085	3,254,467
SUNY-STONY BROOK	GM+	86	1,566,698	45,382	44,201	27,060	U/A	U/A	12,331	2,561,817
SYRACUSE	bGL+	87	2,217,231	64,083	58,695	24,613	U/A	U/A	21,244	3,146,128
TEMPLE	BLM+	88	1,952,593	63,939	55,963	26,099	14,096	2,200	16,296	1,339,672
TENNESSEE	+	89	1,587,838	39,653	35,233	20,748	12,296	2,076	14,372	1,741,261
TEXAS	L+	90	5,753,629	179,838	174,303	U/A	U/A	U/A	79,772	3,839,532
TEXAS A&M	GM+	91	1,723,660	69,746	68,008	29,951	16,510	1,151	17,661	3,271,036
TORONTO	LM+	92	5,563,396	186,408	174,022	U/A	30,945	7,977	38,922	1,003,290
TULANE	GBLM+	93	1,682,060	54,497	51,473	24,116	U/A	U/A	15,480	1,699,685
UTAH	G+	94	1,646,550	58,866	58,084	U/A	U/A	U/A	14,348	2,245,158
VANDERBILT	GLM+	95	1,711,774	56,985	32,633	U/A	U/A	U/A	18,098	1,422,902
VIRGINIA	GLM+	96	2,902,823	102,177	90,656	71,947	20,880	2,609	23,489	3,783,903
VPI & SU	+	97	1,593,757	50,541	48,396	24,191	17,440	2,600	20,040	4,110,249
WASHINGTON	LM+	98	4,658,911	158,790	109,797	31,604	U/A	U/A	55,590	4,693,784
WASHINGTON STATE	+	99	1,492,864	38,511	36,683	23,718	13,725	7,373	21,098	2,356,530
WASHINGTON U-ST. LOUIS	GLM+	100	2,120,974	49,487	40,955	23,628	17,524	360	17,884	1,516,826

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
81	**5,172**	**3,665**	**119**	**156**	**110**	**385**	**1,066,968**	**2,106,928**	**169,622**	**395,644**
82	**59,181**	**6,429**	**56**	**97**	**93**	**246**	**639,417**	**1,757,862**	**57,079**	**34,802**
83	**20,314**	**7,336**	**170**	**352**	**99**	**621**	**3,842,453**	**3,083,713**	**U/A**	**U/A**
84	**18,234**	**8,313**	**46**	**89**	**39**	**174**	**599,230**	**1,223,291**	**47,545**	**246,010**
85	28,576	8,868	90	115	72	277	811,750	2,007,236	96,223	143,270
86	20,664	5,639	52	119	45	216	1,057,023	1,427,818	69,584	237,997
87	6,972	4,990	67	145	40	252	675,593	1,934,329	66,413	U/A
88	7,430	6,280	72	118	76	266	835,000	1,242,295	37,387	171,041
89	**17,122**	**4,266**	**56**	**134**	**42**	**232**	**658,776**	**1,387,411**	**U/A**	**U/A**
90	**13,568**	**7,804**	**137**	**373**	**67**	**577**	**2,074,340**	**2,642,522**	**U/A**	**U/A**
91	**38,579**	**13,473**	**67**	**149**	**95**	**311**	**1,239,235**	**2,064,639**	**352,377**	**15,418**
92	**21,303**	**8,869**	**157**	**463**	**107**	**727**	**2,501,288**	**2,600,780**	**U/A**	**U/A**
93	9,001	8,568	50	102	31	183	1,107,233	1,522,883	U/A	105,214
94	10,578	8,080	49	111	72	232	1,409,261	681,274	U/A	U/A
95	15,532	8,923	74	119	63	256	1,080,045	1,676,199	U/A	211,819
96	23,007	8,814	95	193	53	341	2,062,710	2,119,484	545,300	94,572
97	**16,049**	**3,355**	**56**	**105**	**44**	**205**	**1,025,415**	**2,318,536**	**U/A**	**168,391**
98	**78,824**	**4,986**	**119**	**228**	**124**	**471**	**1,226,677**	**3,005,302**	**242,154**	**0**
99	**17,391**	**3,755**	**45**	**110**	**52**	**207**	**671,749**	**1,598,458**	**22,637**	**0**
100	**18,992**	**9,236**	**65**	**121**	**42**	**228**	**656,227**	**2,032,205**	**115,863**	**135,238**

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
3,739,162	143,303	3,277,367	2,336,731	607,423	6,221,521	2,581,672	12,685,658	SOUTHERN CALIFORNIA
2,489,160	108,788	1,803,322	1,466,804	682,259	3,952,385	608,397	7,158,730	SOUTHERN ILLINOIS
6,926,166	372,751	5,935,712	7,554,985	1,182,826	14,673,523	3,879,807	25,852,247	STANFORD
2,116,076	71,000	964,285	1,894,570	249,937	3,108,792	440,032	5,735,900	SUNY-ALBANY
3,058,479	144,605	2,670,908	1,854,928	556,501	5,082,337	1,067,258	9,352,679	SUNY-BUFFALO
2,792,422	114,899	1,716,302	1,804,668	273,719	3,794,689	566,981	7,268,991	SUNY-STONY BROOK
2,676,335	78,190	1,749,114	1,699,282	220,135	3,668,531	1,254,255	7,677,311	SYRACUSE
2,285,723	103,119	1,943,950	1,761,870	249,715	3,955,535	784,516	7,128,893	TEMPLE
2,046,187	105,521	1,549,243	1,593,351	287,388	3,429,982	327,425	5,909,115	TENNESSEE
4,716,862	169,359	3,354,933	4,602,757	797,269	8,754,959	2,616,890	16,258,070	TEXAS
3,671,669	136,561	1,676,969	1,695,682	660,702	4,033,353	1,181,031	9,022,614	TEXAS A&M
5,102,068	192,111	4,562,676	7,067,253	1,150,439	12,780,368	2,299,678	20,374,225	TORONTO
2,735,330	130,037	1,357,408	1,287,976	222,710	2,868,094	818,792	6,552,253	TULANE
2,090,535	115,841	1,086,172	1,585,313	549,110	3,220,595	1,387,691	6,814,662	UTAH
2,968,063	116,779	1,831,082	1,766,313	313,173	3,910,568	1,592,651	8,588,061	VANDERBILT
4,822,066	215,521	2,717,308	2,945,845	600,114	6,263,267	1,957,737	13,258,591	VIRGINIA
3,512,342	119,645	1,230,159	1,460,868	277,673	2,968,700	794,217	7,394,904	VPI & SU
4,474,133	280,441	3,180,022	4,036,630	914,023	8,130,675	3,155,981	16,041,230	WASHINGTON
2,292,844	87,910	1,169,415	1,873,181	443,400	3,485,996	906,321	6,773,071	WASHINGTON STATE
2,939,533	111,401	1,844,258	1,683,239	271,055	3,798,552	1,944,153	8,793,639	WASHINGTON U-ST. LOUIS

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
WATERLOO	B+	101	1,533,271	64,747	64,747	27,214	9,525	5,475	15,000	696,187
WAYNE STATE	BLM+	102	2,179,666	61,745	50,274	28,836	16,436	7,338	23,774	1,845,449
WESTERN ONTARIO	LM+	103	1,895,089	60,069	48,916	31,422	U/A	U/A	19,375	1,883,430
WISCONSIN	LM+	104	4,713,250	101,202	89,208	U/A	U/A	U/A	50,607	2,907,495
YALE	bGLM+	105	8,391,707	160,953	155,028	133,383	35,712	20,700	56,412	2,613,359
YORK	GBL+	106	1,646,482	57,499	54,521	U/A	U/A	U/A	18,598	664,235
BOSTON PUBLIC LIBRARY	G+	107	5,806,895	239,516	239,305	155,788	16,049	U/A	16,049	3,425,144
CANADA INST. FOR SCITECH.	B+	108	2,074,181	90,717	90,717	28,217	28,750	2,500	31,250	2,175,000
CENTER FOR RESEARCH LIB.	G+	109	2,861,183	30,711	30,711	U/A	13,836	0	13,836	1,082,081
LIBRARY OF CONGRESS	L+	110	20,957,228	288,690	279,425	111,065	37,500	137,500	175,000	7,012,227
LINDA HALL LIBRARY	G+	111	594,950	17,800	10,000	9,200	11,000	2,140	13,140	42,000
NATL. AGRICULTURAL LIB.	B+	112	1,873,874	13,771	13,771	4,676	9,000	18,000	27,000	775,310
NATL. LIBRARY OF CANADA	G+	113	1,131,621	51,595	50,705	7,573	6,553	14,271	20,824	2,618,700
NATL. LIBRARY OF MEDICINE	M+	114	1,821,644	41,918	39,406	11,540	22,751	4,086	26,837	233,000
NEWBERRY LIBRARY	G+	115	1,412,162	9,616	9,608	6,149	U/A	U/A	7,000	246,428
NEW YORK PUBLIC LIBRARY	+	116	6,056,320	91,375	83,764	U/A	U/A	U/A	147,375	2,559,137
NEW YORK STATE LIBRARY	LM+	117	2,009,402	30,643	30,542	17,082	9,932	8,750	18,682	3,858,136
SMITHSONIAN INSTITUTION	B+	118	1,018,165	21,240	17,544	10,000	3,814	13,000	16,814	U/A

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

Lib No	INTERLIBRARY LOANS: Total Loaned	INTERLIBRARY LOANS: Total Borrowed	PERSONNEL (FTE): Prof. Staff	PERSONNEL (FTE): Non-Prof. Staff	PERSONNEL (FTE): Student Assts.	PERSONNEL (FTE): Total Staff	EXPENDITURES: Monographs	EXPENDITURES: Current Serials	EXPENDITURES: Other Library Materials	EXPENDITURES: Misc. Materials Expend.
	10	11	12	13	14	15	16	17	18
101	5,113	5,315	43	141	22	206	692,250	1,224,673	27,088	U/A
102	20,300	2,609	58	111	86	255	699,054	1,671,426	890,523	U/A
103	8,906	5,393	64	201	49	304	793,791	1,829,617	U/A	U/A
104	29,602	11,653	132	217	145	494	1,648,909	2,533,524	316,517	514,942
105	9,242	6,884	191	396	92	679	1,845,600	2,649,500	577,200	1,361,800
106	7,258	3,753	50	134	57	241	906,657	1,167,845	95,128	131,190
107	29,803	715	226	390	39	655	4,077,117	1,153,000	642,716	0
108	343,070	N/A	79	132	12	223	1,383,111	4,098,641	110,957	578,199
109	24,727	0	21	29	13	63	U/A	U/A	323,321	0
110	61,258	588	2,733	2,234	N/A	4,967	1,793,569	2,385,081	1,428,298	106,602
111	66,335	82	23	38	N/A	61	195,494	1,126,273	U/A	53,100
112	98,866	22,988	96	83	11	190	$ 267,691	$ 946,709	U/A	U/A
113	85,024	1,223	209	321	U/A	530	417,972	365,013	1,095,577	33,871
114	135,754	205	144	109	20	273	493,921	2,085,887	192,033	0
115	775	595	49	55	U/A	104	519,561	148,957	U/A	0
116	5,859	1,863	250	414	144	808	1,748,105	3,496,261	U/A	U/A
117	31,020	1,660	80	119	N/A	199	599,477	1,426,770	U/A	N/A
118	7,500	15,900	53	64	N/A	117	561,000	524,380	105,500	625,000

N/A - Not Available U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
1,944,014	9,393	1,708,563	1,991,348	188,980	3,468,651	455,636	5,925,791	WATERLOO
3,261,083	96,180	1,834,004	2,035,000	678,461	4,396,543	2,105,446	9,868,092	WAYNE STATE
2,623,408	136,333	1,462,601	2,481,820	499,029	4,443,522	377,401	7,563,768	WESTERN ONTARIO
5,013,892	231,249	4,018,138	4,114,297	1,152,220	9,284,655	2,713,727	17,253,886	WISCONSIN
6,434,100	303,700	5,623,400	5,480,400	713,600	11,817,400	3,300,100	21,855,300	YALE
2,300,820	144,002	1,539,614	2,139,216	434,460	4,113,290	993,969	7,552,081	YORK
5,872,833	0	U/A	U/A	U/A	13,130,348	5,188,350	24,191,531	BOSTON PUBLIC LIBRARY
6,170,908	99,941	2,709,014	2,720,730	43,738	5,473,482	5,913,313	17,657,644	CANADA INST. FOR SCITECH.
537,387	0	619,314	379,967	103,931	1,103,212	1,216,033	2,851,632	CENTER FOR RESEARCH LIB.
5,713,550	1,025,811	U/A	U/A	N/A	148,156,000	120,634,633	275,530,000	LIBRARY OF CONGRESS
1,374,867	55,658	U/A	U/A	N/A	1,129,286	274,904	2,834,686	LINDA HALL LIBRARY
$1,214,400	13,000	3,358,406	2,128,982	150,000	5,637,388	$4,233,212	11,098,000	NATL. AGRICULTURAL LIB.
1,902,433	16,001	5,574,774	7,929,190	279,108	13,783,072	9,028,133	24,729,639	NATL. LIBRARY OF CANADA
2,771,841	140,000	U/A	U/A	U/A	6,768,264	7,936,407	17,616,512	NATL. LIBRARY OF MEDICINE
668,518	74,328	U/A	U/A	U/A	2,210,212	2,828,402	5,781,460	NEWBERRY LIBRARY
5,244,366	571,174	U/A	U/A	U/A	12,665,852	5,555,248	24,036,640	NEW YORK PUBLIC LIBRARY
2,026,241	91,366	2,249,244	1,763,426	N/A	4,013,170	1,277,186	7,408,001	NEW YORK STATE LIBRARY
1,815,880	100,000	1,539,797	1,096,996	N/A	2,836,107	418,839	5,176,826	SMITHSONIAN INSTITUTION

N/A = Not Applicable U/A = Unavailable

ARL LIBRARY DATA TABLE

TOTALS

COLLECTIONS

Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
1	2	3	4	5	6	7	8
			UNIVERSITY MEDIAN				
2,069,888	63,760	58,389	29,644	16,683	3,508	20,959	2,024,706
			UNIVERSITY HIGH				
11,284,170	257,027	195,319	133,383	42,990	32,806	102,000	4,693,784
			UNIVERSITY LOW				
1,103,752	30,133	18,554	4,499	6,849	0	7,349	154,940
			TOTALS - UNIVERSITY LIBRARIES				
280,363,262	8,471,884	7,372,926	2,831,134	1,212,600	357,596	2,914,429	223,826,983
			TOTALS - NON-UNIVERSITY LIBRARIES				
47,617,625	927,592	895,498	361,290	159,185	200,247	513,807	24,027,163
			GRAND TOTALS - ALL ARL LIBRARIES				
327,980,887	9,399,476	8,268,424	3,192,424	1,371,785	557,843	3,428,236	247,854,146

ARL LIBRARY DATA TABLE

TOTALS

INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18
				UNIVERSITY MEDIAN					
16,608	7,361	68	134	63	265	1,065,726	1,769,353	121,777	96,448
				UNIVERSITY HIGH					
132,002	157,645	327	577	288	1,030	4,274,884	3,940,596	1,178,451	1,361,800
				UNIVERSITY LOW					
2,666	964	33	46	7	112	232,919	681,274	7,072	0
				TOTALS - UNIVERSITY LIBRARIES					
2,342,269	998,592	8,560	17,159	7,726	33,445	129,672,070	195,307,559	15,083,669	10,530,954
				TOTALS - NON-UNIVERSITY LIBRARIES					
890,080	45,825	3,963	3,988	239	8,190	12,052,648	18,751,342	3,898,402	1,396,772
				GRAND TOTALS - ALL ARL LIBRARIES					
3,232,349	1,044,417	12,523	21,147	7,965	41,635	141,724,718	214,058,901	18,982,071	11,927,726

ARL LIBRARY DATA TABLE

TOTALS

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.
19	20	21	22	23	24	25	26
UNIVERSITY MEDIAN							
3,083,287	143,652	1,879,872	1,999,089	494,702	4,390,277	1,191,640	9,006,307
UNIVERSITY HIGH							
9,412,545	694,503	9,582,966	8,844,034	2,278,731	19,393,865	5,291,826	34,792,739
UNIVERSITY LOW							
1,283,696	38,181	964,285	530,263	101,122	1,918,567	136,822	4,154,159
TOTALS - UNIVERSITY LIBRARIES							
359,638,171	19,040,108	230,646,695	246,529,160	56,067,949	576,357,886	151,215,194	1,106,251,359
TOTALS - NON-UNIVERSITY LIBRARIES							
36,308,230	2,193,288	16,250,473	16,019,181	576,777	216,906,393	163,504,660	418,912,571
GRAND TOTALS - ALL ARL LIBRARIES							
395,946,401	21,233,396	246,897,168	262,548,341	56,644,726	793,264,279	314,719,854	1,525,163,930

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 106 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	42	25	18
2. Nonprofessional Staff as percent of Total Staff	73	51	15
3. Student Assistant Staff as percent of Total Staff	55	24	3
4. Ratio of Professional Staff to Non-professional Staff (excluding student assistants)	1.9:1	0.5:1	0.2:1
5. Ratio of Items Loaned to Items Borrowed	15.8:1	2.1:1	0.5:1
6. Serials Expenditures as percent of Materials Expenditures	75	56	32
7. Materials Expenditures as percent of Total Operating Expenditures	49	34	20
8. Contract Binding as percent of Total Operating Expenditures	3.2	1.6	0.5
9. Salary and Wage Expenditures as percent of Total Operating Expenditures	65	51	40
10. Other Operating Expenditures as percent of Total Operating Expenditures	26	13	3
11. Unit cost of monographs (per volume)	53.05	31.79	13.84
12. Unit cost of serials (per title)	160.94	102.49	54.34

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986 Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
ALABAMA +	68	42	702	12,065	1,261	1,539	1,345
ALBERTA	178	55	1,748	24,302	4,710	2,775	1,098
ARIZONA	325	93	1,328	24,648	8,793	4,187	4,230
ARIZONA STATE	118	35	1,245	26,505	15,037	3,276	7,181
BOSTON	154	44	918	19,775	7,726	5,772	3,718
BRIGHAM YOUNG	53	36	1,297	22,207	8,019	1,886	1,310
BRITISH COLUMBIA	144	83	1,932	20,816	4,118	3,037	912
BROWN	145	31	490	7,066	384	1,559	87
CALIF.,BERKELEY	727	118	1,471	28,181	3,282	7,413	901
CALIF.,DAVIS	245	54	939	19,517	2,000	5,259	200
CALIF.,IRVINE +	125	30	978	14,532	0	2,652	0
CALIF.,LOS ANGELES	431	68	1,551	31,885	1,199	7,967	42
CALIF.,RIVERSIDE	88	26	440	5,163	563	1,337	90
CALIF.,SAN DIEGO +	162	41	865	15,255	781	1,826	86
CALIF.,SANTA BARBARA	175	57	1,015	17,420	583	2,026	100
CASE WESTERN RESERVE	162	55	496	5,955	2,353	3,255	1,837
CHICAGO	319	64	1,165	8,131	1,524	5,158	1,480
CINCINNATI +	186	87	1,038	20,023	10,714	3,677	2,693
COLORADO	230	44	924	20,557	2,569	3,279	898
COLORADO STATE	173	35	925	16,050	2,231	1,762	811
COLUMBIA	315	54	1,834	14,149	4,611	9,073	1,721
CONNECTICUT	174	66	1,561	16,675	6,982	2,510	3,779
CORNELL	432	90	1,523	17,588	40	5,259	22
DARTMOUTH	35	11	761	4,598	29	1,043	2
DELAWARE	96	40	816	14,257	4,374	1,160	895
DUKE	151	38	1,681	10,420	54	4,875	296
EMORY +	94	43	626	7,727	1,441	2,796	1,306
FLORIDA +	303	65	2,810	23,680	4,008	5,547	1,859
FLORIDA STATE +	226	65	998	18,020	5,009	2,865	2,215
GEORGETOWN	65	16	1,108	9,561	2,406	4,099	2,099
GEORGIA	195	53	1,677	21,695	4,003	2,790	1,796
GEORGIA TECH	88	61	537	10,389	1,105	1,981	573
GUELPH	55	U/A	716	10,736	690	993	52
HARVARD +	434	47	1,093	6,616	753	9,132	575
HAWAII	130	38	1,125	13,420	5,498	2,623	2,941
HOUSTON	63	52	1,238	15,858	13,184	3,678	6,643
HOWARD	63	24	1,189	7,372	4,742	1,666	1,499
ILLINOIS	571	83	2,036	35,052	3,278	6,864	2,267
INDIANA	265	99	1,391	27,438	2,304	4,583	2,675
IOWA	273	55	1,612	23,082	7,588	5,246	3,837
IOWA STATE	296	87	1,294	23,217	3,856	2,671	2,014
JOHNS HOPKINS +	190	60	628	5,502	6,107	2,851	1,488
KANSAS +	217	63	1,466	21,875	6,382	3,429	4,351

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
KENT STATE	132	18	720	14,992	5,854	1,256	2,952
KENTUCKY	118	47	1,509	15,965	4,727	2,637	1,911
LAVAL	133	58	1,491	21,839	10,596	3,495	2,607
LOUISIANA STATE	148	53	1,229	23,426	4,995	2,536	1,637
MCGILL	188	50	1,751	17,425	3,468	3,692	790
MCMASTER	72	26	1,001	11,058	4,081	1,156	909
MANITOBA	71	37	1,296	13,191	7,131	1,747	969
MARYLAND +	378	68	1,320	28,664	9,975	3,418	4,859
MASSACHUSETTS +	213	48	1,281	21,814	5,987	2,801	3,868
MIT	416	85	1,104	9,231	525	4,860	452
MIAMI	93	45	1,426	10,951	2,432	3,264	1,338
MICHIGAN	589	136	2,293	30,779	1,756	9,779	2,678
MICHIGAN STATE	436	156	1,905	34,952	9,136	4,648	5,320
MINNESOTA	556	118	1,730	35,578	30,376	12,006	3,242
MISSOURI	181	61	908	18,641	4,086	1,758	2,180
NEBRASKA	203	29	1,161	18,331	5,568	2,103	2,076
NEW MEXICO +	136	35	1,121	13,427	7,997	1,635	5,329
NEW YORK +	365	151	2,846	18,192	13,473	7,145	9,807
NORTH CAROLINA	294	59	1,965	18,929	3,897	4,590	2,878
NORTH CAROLINA STATE	182	42	1,425	16,994	7,564	1,326	2,211
NORTHWESTERN	293	78	1,349	12,984	3,242	5,287	1,694
NOTRE DAME	99	23	693	9,301	483	1,765	405
OHIO STATE	563	87	1,903	42,779	11,109	5,956	4,247
OKLAHOMA	121	45	1,396	17,493	7,199	2,302	2,958
OKLAHOMA STATE	132	37	779	17,029	3,825	1,554	2,477
OREGON	131	42	964	14,632	2,510	2,748	1,037
PENNSYLVANIA +	333	108	3,852	17,192	4,550	5,905	1,845
PENNSYLVANIA STATE	326	90	2,510	49,692	14,414	3,960	4,268
PITTSBURGH +	376	78	2,275	17,727	10,635	3,654	4,693
PRINCETON	218	42	649	6,232	0	1,672	0
PURDUE	369	68	1,418	28,408	1,217	3,645	501
QUEEN'S	93	27	958	11,470	3,610	1,641	495
RICE	93	26	425	4,042	0	1,273	0
ROCHESTER	165	50	1,195	6,918	1,943	1,904	1,522
RUTGERS	258	48	1,871	31,496	15,567	2,953	8,047
SASKATCHEWAN +	42	U/A	1,127	13,766	7,001	1,092	315
SOUTH CAROLINA	137	49	1,172	15,775	7,190	3,451	4,963
SOUTHERN CALIFORNIA +	363	67	1,173	19,678	11,153	5,167	8,525
SOUTHERN ILLINOIS	143	22	964	18,709	4,737	930	2,800
STANFORD	545	77	1,284	11,856	1,436	5,285	1,436
SUNY-ALBANY	74	21	668	10,350	1,564	1,759	1,110
SUNY-BUFFALO +	233	65	1,074	19,241	7,730	5,178	3,405
SUNY-STONY BROOK	173	22	1,028	12,654	3,512	2,778	2,109

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1986			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
SYRACUSE +	136	83	916	15,284	5,836	2,943	4,072
TEMPLE	197	49	1,662	19,739	10,876	1,810	4,899
TENNESSEE	200	50	1,106	19,359	6,483	3,119	3,145
TEXAS	610	74	1,977	40,375	5,765	9,670	1,463
TEXAS A&M	367	72	1,524	32,153	4,417	4,650	2,219
TORONTO	340	70	2,718	34,329	16,730	5,470	3,364
TULANE	55	35	418	8,277	2,065	3,177	522
UTAH	183	60	937	15,265	9,456	3,192	1,143
VANDERBILT +	120	37	1,390	8,074	809	2,960	686
VIRGINIA	188	44	965	16,150	5,465	5,050	4,206
VPI & SU +	217	56	1,493	21,078	3,559	3,348	2,909
WASHINGTON	411	62	1,617	26,928	6,746	6,501	2,089
WASHINGTON STATE	152	40	737	14,832	1,361	1,839	600
WASHINGTON U-ST. LOUIS	96	47	567	7,132	1,851	2,740	1,500
WATERLOO	107	48	785	12,548	9,505	3,358	405
WAYNE STATE	156	54	1,250	13,908	9,332	4,494	5,524
WESTERN ONTARIO	100	31	1,405	15,346	3,133	2,307	179
WISCONSIN	603	120	2,120	37,279	7,305	8,978	4,367
YALE +	254	56	1,536	10,356	302	5,209	302
YORK	68	55	1,131	19,859	13,773	1,671	1,410

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the seventeen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library (106)
Table 2 - Volumes Added (Gross) (106)
Table 3 - Current Serials (Total) (106)
Table 4 - Microform Holdings (Total) (106)
Table 5 - Materials Expenditures (106)
Table 6 - Salaries & Wages Expenditures (106)
Table 7 - Other Operating Expenditures (106)
Table 8 - Total Expenditures (106)
Table 9 - Monographs Purchased (Volumes) (78)
Table 10 - Expenditures For Monographs (104)
Table 11 - Serials Purchased (Titles) (65)
Table 12 - Expenditures for Serials (105)
Table 13 - Total Items Loaned (106)
Table 14 - Total Items Borrowed (106)
Table 15 - Professional Staff (FTE) (106)
Table 16 - Nonprofessional Staff (FTE) (106)
Table 17 - Total Staff (FTE) (106)

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ALABAMA	74	97	77	83	82	103	94	101	66	80	32	79	97	84	81	101	97
ALBERTA	30	26	47	41	52	18	49	30	27	79	20	21	60	8	36	11	22
ARIZONA	23	22	27	13	20	32	56	29	5	35	8	10	8	56	27	32	29
ARIZONA STATE	45	13	28	32	19	42	40	31	U/A	7	U/A	40	19	25	36	27	31
BOSTON	82	79	30	37	65	58	27	54	61	65	29	57	40	2	60	47	48
BRIGHAM YOUNG	62	54	72	73	64	59	66	63	3	32	57	91	87	17	31	106	43
BRITISH COLUMBIA	31	29	44	96	33	20	68	28	11	18	26	39	46	23	24	14	19
BROWN	54	85	87	91	86	74	20	60	22	55	50	89	86	79	45	87	63
CALIF.,BERKELEY	4	3	2	9	6	2	5	3	U/A	4	U/A	2	10	3	4	7	2
CALIF.,DAVIS	50	31	13	36	22	24	51	24	12	20	2	16	17	50	51	26	35
CALIF.,IRVINE	99	48	78	85	50	44	45	46	33	56	38	48	69	41	76	83	75
CALIF.,LOS ANGELES	8	1	4	6	2	3	2	2	U/A	1	U/A	4	6	40	2	8	3
CALIF.,RIVERSIDE	100	78	96	87	85	76	83	80	24	60	60	97	94	38	105	86	96
CALIF.,SAN DIEGO	64	40	58	84	36	27	34	27	14	14	U/A	76	56	58	50	38	40
CALIF.,SANTA BARBARA	65	57	84	51	44	33	57	42	U/A	37	U/A	56	95	26	68	51	67

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CASE WESTERN RESERVE	94	101	94	103	99	89	76	97	70	99	51	85	11	66	56	99	98
CHICAGO	11	18	11	77	27	31	10	21	7	13	U/A	28	13	61	45	28	33
CINCINNATI	88	76	62	55	51	40	29	40	U/A	39	U/A	43	26	30	43	51	44
COLORADO	51	67	95	89	72	65	92	74	55	87	52	55	53	35	87	91	87
COLORADO STATE	106	104	99	106	101	102	79	102	76	98	64	103	71	12	96	103	105
COLUMBIA	7	14	16	11	9	7	7	7	23	8	16	12	43	64	8	6	6
CONNECTICUT	53	50	48	43	63	48	65	56	U/A	36	U/A	66	29	19	60	89	74
CORNELL	12	11	7	3	7	12	9	10	U/A	U/A	U/A	U/A	31	16	6	9	11
DARTMOUTH	78	63	57	57	77	94	67	86	U/A	74	34	67	74	62	97	83	94
DELAWARE	67	77	46	71	47	95	59	70	U/A	17	U/A	81	88	94	76	76	82
DUKE	19	27	19	86	25	34	47	32	18	23	13	25	21	83	28	33	39
EMORY	57	65	68	69	48	56	39	52	U/A	41	U/A	68	37	73	60	55	61
FLORIDA	33	37	29	29	32	35	55	35	20	27	11	53	14	52	25	36	21
FLORIDA STATE	77	92	73	35	53	92	100	79	U/A	33	42	70	35	70	70	93	69
GEORGETOWN	84	49	53	68	58	49	41	51	31	43	25	86	101	74	47	58	46
GEORGIA	34	25	9	10	31	46	43	39	N/A	61	1	9	20	75	40	30	24
GEORGIA TECH	92	47	32	27	105	106	84	106	78	104	24	101	64	102	87	105	106
GUELPH	73	43	103	90	103	101	106	104	60	100	U/A	102	106	99	106	80	103
HARVARD	1	2	1	2	1	1	1	1	U/A	2	U/A	1	15	42	1	1	1
HAWAII	49	39	23	44	79	53	61	62	U/A	68	10	75	82	105	56	91	79
HOUSTON	93	96	43	20	81	97	88	94	59	97	18	59	63	45	93	98	101
HOWARD	83	33	35	38	28	47	70	44	28	30	14	19	105	106	40	61	55
ILLINOIS	3	4	3	18	17	14	26	16	4	19	U/A	8	2	1	9	10	10
INDIANA	18	16	20	82	24	25	35	23	17	22	5	27	16	29	19	18	12
IOWA	27	28	34	22	23	54	62	47	2	16	15	34	7	48	38	87	56

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IOWA STATE	72	75	59	54	69	86	102	84	49	69	44	52	34	85	91	81	87
JOHNS HOPKINS	29	38	60	79	42	38	30	37	21	49	40	47	55	5	31	31	27
KANSAS	32	45	36	59	37	50	25	43	19	31	28	36	12	4	33	65	45
KENT STATE	81	106	106	98	106	77	38	89	62	103	65	104	76	53	97	95	92
KENTUCKY	56	79	55	53	59	66	46	59	58	67	U/A	58	44	24	56	62	52
LAVAL	85	68	92	99	91	36	80	58	57	82	59	90	75	27	51	24	51
LOUISIANA STATE	42	58	41	80	39	68	86	61	36	50	23	26	89	91	63	70	47
MCGILL	40	56	69	97	43	26	53	34	25	62	43	87	18	50	43	21	35
MCMASTER	103	89	101	105	74	84	98	83	38	44	58	77	77	59	103	50	91
MANITOBA	97	103	98	95	102	61	97	90	74	102	56	88	73	86	70	40	68
MARYLAND	63	34	45	12	41	37	31	36	30	45	21	46	66	101	39	44	37
MASSACHUSETTS	46	44	82	72	13	55	82	48	26	26	46	69	68	55	70	59	69
MIT	55	81	49	70	80	43	37	50	64	83	62	72	59	98	33	43	50
MIAMI	89	83	79	94	67	72	48	64	40	53	U/A	63	45	21	51	62	63
MICHIGAN	5	12	6	15	4	9	17	8	U/A	U/A	4	3	32	20	11	13	9
MICHIGAN STATE	38	30	64	76	40	39	44	41	16	24	39	51	78	82	42	55	38
MINNESOTA	15	19	18	28	18	11	4	9	U/A	25	7	7	1	11	13	33	18
MISSOURI	41	84	76	4	89	90	63	85	72	77	49	83	25	57	64	57	60
NEBRASKA	61	62	39	52	61	98	91	87	47	78	U/A	30	79	77	79	78	84
NEW MEXICO	102	102	102	24	94	75	75	82	51	92	U/A	98	90	78	89	81	66
NEW YORK	24	41	24	48	30	19	13	18	29	46	9	24	84	37	22	29	28
NORTH CAROLINA	21	15	15	30	14	21	28	19	10	12	12	20	27	92	16	22	20
NORTH CAROLINA STATE	104	74	88	26	62	78	81	73	34	72	53	62	28	90	93	62	75
NORTHWESTERN	22	36	25	61	56	30	52	38	32	64	U/A	38	50	18	20	42	30
NOTRE DAME	66	70	83	88	76	99	74	91	44	57	U/A	92	52	34	101	72	95

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
OHIO STATE	16	21	26	23	12	17	18	15	9	9	17	11	23	14	16	20	17
OKLAHOMA	47	95	75	34	84	100	87	98	71	94	33	65	24	6	86	100	89
OKLAHOMA STATE	96	105	104	101	104	104	93	105	77	101	63	100	85	89	97	104	102
OREGON	68	60	56	67	75	91	89	88	13	63	41	84	72	67	82	97	81
PENNSYLVANIA	20	32	33	92	45	22	24	26	U/A	42	U/A	32	61	9	20	37	26
PENNSYLVANIA STATE	26	10	31	25	29	16	16	17	U/A	29	U/A	18	38	22	18	12	16
PITTSBURGH	28	35	42	50	49	41	15	33	U/A	48	U/A	42	58	46	33	35	34
PRINCETON	17	20	21	49	15	23	32	20	8	6	U/A	45	96	68	23	17	25
PURDUE	69	55	54	66	70	67	77	71	73	81	27	44	80	63	65	44	54
QUEEN'S	76	98	85	74	83	83	105	92	45	70	U/A	80	104	71	101	39	77
RICE	98	90	100	62	98	105	78	103	U/A	76	U/A	99	65	103	97	102	104
ROCHESTER	35	91	93	46	55	71	69	65	69	59	55	50	30	49	68	78	78
RUTGERS	39	17	66	39	26	8	33	14	15	28	U/A	23	54	13	26	15	15
SASKATCHEWAN	101	88	105	64	93	88	104	100	75	95	U/A	74	83	10	104	59	98
SOUTH CAROLINA	43	66	65	45	92	82	99	93	63	86	U/A	71	67	72	65	72	89
SOUTHERN CALIFORNIA	36	71	22	56	34	29	14	25	46	52	47	31	102	97	14	41	23
SOUTHERN ILLINOIS	59	72	50	40	78	63	85	75	68	93	U/A	54	5	65	70	94	62
STANFORD	9	7	14	19	3	4	3	4	U/A	3	U/A	5	42	54	5	5	7
SUNY-ALBANY	105	94	80	104	95	87	96	99	65	96	37	95	48	43	89	96	98
SUNY-BUFFALO	37	42	37	16	54	45	58	49	U/A	73	22	37	22	33	30	70	49
SUNY-STONY BROOK	90	93	97	33	66	70	90	72	43	54	U/A	78	39	76	80	67	80
SYRACUSE	44	52	51	17	71	73	50	66	50	88	U/A	41	100	87	54	48	59
TEMPLE	58	53	81	81	90	62	73	76	48	71	45	93	98	69	49	69	52
TENNESSEE	87	99	90	63	97	81	103	96	67	90	54	82	51	93	70	53	71
TEXAS	6	6	5	7	16	13	12	12	U/A	10	U/A	14	70	47	9	4	8

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TEXAS A&M	70	46	74	14	35	60	54	53	39	38	35	33	9	7	54	44	41
TORONTO	10	5	17	93	8	5	19	6	U/A	5	6	15	36	32	7	2	4
TULANE	75	82	86	65	68	96	71	81	53	47	U/A	73	93	39	82	89	92
UTAH	79	64	91	47	96	85	42	77	U/A	34	U/A	105	81	44	85	72	71
VANDERBILT	71	73	70	78	57	64	36	57	U/A	51	U/A	60	62	31	47	67	57
VIRGINIA	25	23	40	8	11	28	22	22	6	11	19	29	33	36	28	24	32
VPI & SU	86	86	61	5	38	93	72	69	52	58	31	22	57	100	70	85	86
WASHINGTON	14	9	10	1	21	15	8	13	35	40	U/A	6	4	88	14	16	14
WASHINGTON STATE	95	100	52	42	88	79	64	78	54	89	48	64	49	95	91	76	82
WASHINGTON U-ST. LOUIS	52	87	71	75	60	69	23	55	56	91	30	35	47	28	59	65	73
WATERLOO	91	51	89	100	100	80	95	95	42	85	61	94	103	81	93	49	84
WAYNE STATE	48	59	38	60	46	52	21	45	41	84	36	61	41	104	67	72	58
WESTERN ONTARIO	60	61	63	58	73	51	101	67	37	75	U/A	49	91	80	76	23	42
WISCONSIN	13	24	12	21	10	10	11	11	U/A	21	U/A	17	3	15	12	19	13
YALE	2	8	8	31	5	6	6	5	1	15	3	13	92	60	3	3	5
YORK	80	69	67	102	87	57	60	68	U/A	66	U/A	96	99	96	82	53	65

U/A - Unavailable ( ) Number of institutions reporting data

RANK ORDER TABLES OF UNIVERSITY LIBRARIES

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 9,000 and over
2- 8,000-8,999
3- 7,000-7,999
4- 6,000-6,999
5- 5,000-5,999
6- 4,000-4,999
7- 3,000-3,999
8- 2,000-2,999
9- 1,000-1,999

Gp	Rank	Institution	Value
1	1	HARVARD	11,284,170
2	2	YALE	8,391,707
3	3	ILLINOIS	7,190,443
	4	CALIF.,BERKELEY	7,031,934
4	5	MICHIGAN	6,019,919
5	6	TEXAS	5,753,629
	7	COLUMBIA	5,625,925
	8	CALIF.,LOS ANGELES	5,625,521
	9	STANFORD	5,598,363
	10	TORONTO	5,563,396
6	11	CHICAGO	4,865,137
	12	CORNELL	4,818,377
	13	WISCONSIN	4,713,250
	14	WASHINGTON	4,658,911
	15	MINNESOTA	4,382,696
	16	OHIO STATE	4,169,610
7	17	PRINCETON	3,961,415
	18	INDIANA	3,881,945
	19	DUKE	3,591,197
	20	PENNSYLVANIA	3,442,389
	21	NORTH CAROLINA	3,414,643
	22	NORTHWESTERN	3,270,365
	23	ARIZONA	3,239,055
8	24	NEW YORK	2,920,175
	25	VIRGINIA	2,902,823
	26	PENNSYLVANIA STATE	2,888,342
	27	IOWA	2,839,825
	28	PITTSBURGH	2,741,834
	29	JOHNS HOPKINS	2,670,600
	30	ALBERTA	2,658,752
	31	BRITISH COLUMBIA	2,639,439
	32	KANSAS	2,620,805
	33	FLORIDA	2,605,601
	34	GEORGIA	2,604,601
	35	ROCHESTER	2,549,057
	36	SOUTHERN CALIFORNIA	2,484,152
	37	SUNY-BUFFALO	2,436,454
	38	MICHIGAN STATE	2,431,942
	39	RUTGERS	2,407,696
	40	MCGILL	2,390,943
	41	MISSOURI	2,365,235
	42	LOUISIANA STATE	2,270,617
	43	SOUTH CAROLINA	2,225,572
	44	SYRACUSE	2,217,231
	45	ARIZONA STATE	2,215,376
	46	MASSACHUSETTS	2,199,402
	47	OKLAHOMA	2,192,100
	48	WAYNE STATE	2,179,666
	49	HAWAII	2,164,497
	50	CALIF.,DAVIS	2,159,570
	51	COLORADO	2,146,136
	52	WASHINGTON U-ST. LOUIS	2,120,974
	53	CONNECTICUT	2,074,443
	54	BROWN	2,065,334
	55	MIT	2,062,818
	56	KENTUCKY	2,043,393
	57	EMORY	2,006,423
9	58	TEMPLE	1,952,593
	59	SOUTHERN ILLINOIS	1,950,400
	60	WESTERN ONTARIO	1,895,089
	61	NEBRASKA	1,889,500
	62	BRIGHAM YOUNG	1,863,224
	63	MARYLAND	1,856,510
	64	CALIF.,SAN DIEGO	1,810,844
	65	CALIF.,SANTA BARBARA	1,806,039
	66	NOTRE DAME	1,794,564
	67	DELAWARE	1,778,915
	68	OREGON	1,765,633
	69	PURDUE	1,746,862
	70	TEXAS A&M	1,723,660
	71	VANDERBILT	1,711,774
	72	IOWA STATE	1,708,592
	73	GUELPH	1,706,238
	74	ALABAMA	1,693,117
	75	TULANE	1,682,060
	76	QUEEN'S	1,672,271
	77	FLORIDA STATE	1,667,720
	78	DARTMOUTH	1,664,847
	79	UTAH	1,646,550
	80	YORK	1,646,482
	81	KENT STATE	1,638,383
	82	BOSTON	1,622,336
	83	HOWARD	1,618,259
	84	GEORGETOWN	1,613,442
	85	LAVAL	1,595,553
	86	VPI & SU	1,593,757
	87	TENNESSEE	1,587,838
	88	CINCINNATI	1,581,754
	89	MIAMI	1,576,560
	90	SUNY-STONY BROOK	1,566,698
	91	WATERLOO	1,533,271
	92	GEORGIA TECH	1,532,193
	93	HOUSTON	1,526,291
	94	CASE WESTERN RESERVE	1,512,133
	95	WASHINGTON STATE	1,492,864
	96	OKLAHOMA STATE	1,440,780
	97	MANITOBA	1,431,307
	98	RICE	1,323,470
	99	CALIF.,IRVINE	1,306,730
	100	CALIF.,RIVERSIDE	1,303,872
	101	SASKATCHEWAN	1,300,773
	102	NEW MEXICO	1,276,889
	103	MCMASTER	1,258,534
	104	NORTH CAROLINA STATE	1,201,552
	105	SUNY-ALBANY	1,194,962
	106	COLORADO STATE	1,103,752

U/A - Unavailable

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 250,000 and over
2- 220,000-249,999
3- 190,000-219,999
4- 160,000-189,999
5- 130,000-159,999
6- 100,000-129,999
7- 70,000- 99,999
8- 40,000- 69,999
9- under 39,999

Gp	Rank	Institution	Value
1	1	CALIF.,LOS ANGELES	257,027
2	2	HARVARD	232,559
3	3	CALIF.,BERKELEY	206,181
	4	ILLINOIS	193,407
4	5	TORONTO	186,408
	6	TEXAS	179,838
	7	STANFORD	167,055
	8	YALE	160,953
5	9	WASHINGTON	158,790
	10	PENNSYLVANIA STATE	145,074
	11	CORNELL	136,220
	12	MICHIGAN	135,011
6	13	ARIZONA STATE	122,690
	14	COLUMBIA	121,276
	15	NORTH CAROLINA	118,308
	16	INDIANA	115,003
	17	RUTGERS	114,490
	18	CHICAGO	113,277
	19	MINNESOTA	112,850
	20	PRINCETON	109,948
	21	OHIO STATE	109,546
	22	ARIZONA	104,623
	23	VIRGINIA	102,177
	24	WISCONSIN	101,202
7	25	GEORGIA	93,871
	26	ALBERTA	93,512
	27	DUKE	92,215
	28	IOWA	89,049
	29	BRITISH COLUMBIA	88,131
	30	MICHIGAN STATE	86,578
	31	CALIF.,DAVIS	86,492
	32	PENNSYLVANIA	85,949
	33	HOWARD	83,680
	34	MARYLAND	83,642
	35	PITTSBURGH	82,076
	36	NORTHWESTERN	80,511
	37	FLORIDA	79,610
	38	JOHNS HOPKINS	78,204
	39	HAWAII	77,653
	40	CALIF.,SAN DIEGO	74,428
	41	NEW YORK	72,755
	42	SUNY-BUFFALO	72,120
	43	GUELPH	71,628
	44	MASSACHUSETTS	71,030
	45	KANSAS	70,925
8	46	TEXAS A&M	69,746
	47	GEORGIA TECH	68,582
	48	CALIF.,IRVINE	68,400
	49	GEORGETOWN	66,530
	50	CONNECTICUT	65,403
	51	WATERLOO	64,747
	52	SYRACUSE	64,083
	53	TEMPLE	63,939
	54	BRIGHAM YOUNG	63,582
	55	PURDUE	63,237
	56	MCGILL	62,640
	57	CALIF.,SANTA BARBARA	62,203
	58	LOUISIANA STATE	61,895
	59	WAYNE STATE	61,745
	60	OREGON	60,452
	61	WESTERN ONTARIO	60,069
	62	NEBRASKA	59,785
	63	DARTMOUTH	58,869
	64	UTAH	58,866
	65	EMORY	58,707
	66	SOUTH CAROLINA	58,435
	67	COLORADO	58,140
	68	LAVAL	57,785
	69	YORK	57,499
	70	NOTRE DAME	57,460
	71	SOUTHERN CALIFORNIA	57,372
	72	SOUTHERN ILLINOIS	57,135
	73	VANDERBILT	56,985
	74	NORTH CAROLINA STATE	56,661
	75	IOWA STATE	55,895
	76	CINCINNATI	55,650
	77	DELAWARE	55,450
	78	CALIF.,RIVERSIDE	55,394
	79	BOSTON	54,674
	80	KENTUCKY	54,674
	81	MIT	54,498
	82	TULANE	54,497
	83	MIAMI	53,251
	84	MISSOURI	53,129
	85	BROWN	51,046
	86	VPI & SU	50,541
	87	WASHINGTON U-ST. LOUIS	49,487
	88	SASKATCHEWAN	48,877
	89	MCMASTER	47,942
	90	RICE	47,935
	91	ROCHESTER	47,245
	92	FLORIDA STATE	45,718
	93	SUNY-STONY BROOK	45,382
	94	SUNY-ALBANY	45,333
	95	OKLAHOMA	43,371
	96	HOUSTON	41,561
	97	ALABAMA	40,867
	98	QUEEN'S	40,470
9	99	TENNESSEE	39,653
	100	WASHINGTON STATE	38,511
	101	CASE WESTERN RESERVE	35,812
	102	NEW MEXICO	35,190
	103	MANITOBA	34,692
	104	COLORADO STATE	34,281
	105	OKLAHOMA STATE	31,801
	106	KENT STATE	30,133

U/A - Unavailable

RANK ORDER TABLE 3: CURRENT SERIALS (TOTAL)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over
2- 80,000-89,999
3- 70,000-79,999
4- 60,000-69,999
5- 50,000-59,999
6- 40,000-49,999
7- 30,000-39,999
8- 20,000-29,999
9- 10,000-19,999
10- under 10,000

Gp	Rank	Institution	Value
1	1	HARVARD +	102,000
	2	CALIF.,BERKELEY +	99,065
	3	ILLINOIS	93,913
	4	CALIF.,LOS ANGELES +	93,467
3	5	TEXAS +	79,772
4	6	MICHIGAN +	67,115
5	7	CORNELL +	58,722
	8	YALE	56,412
	9	GEORGIA +	56,149
	10	WASHINGTON +	55,590
	11	CHICAGO +	53,214
	12	WISCONSIN +	50,607
	13	CALIF.,DAVIS +	50,004
6	14	STANFORD +	49,780
	15	NORTH CAROLINA +	44,797
	16	COLUMBIA +	42,779
7	17	TORONTO +	38,922
	18	MINNESOTA +	38,630
	19	DUKE	34,452
	20	INDIANA +	33,975
	21	PRINCETON +	33,140
	22	SOUTHERN CALIFORNIA +	33,071
	23	HAWAII	32,989
	24	NEW YORK +	32,493
	25	NORTHWESTERN +	32,304
	26	OHIO STATE +	31,762
	27	ARIZONA +	31,423
	28	ARIZONA STATE +	31,366
8	29	FLORIDA	29,512
	30	BOSTON	29,177
	31	PENNSYLVANIA STATE +	29,080
	32	GEORGIA TECH +	28,805
	33	PENNSYLVANIA +	28,435
	34	IOWA +	26,986
	35	HOWARD	26,775
	36	KANSAS	25,745
	37	SUNY-BUFFALO +	24,085
	38	WAYNE STATE +	23,774
	39	NEBRASKA +	23,511
	40	VIRGINIA	23,489
	41	LOUISIANA STATE	23,327
	42	PITTSBURGH +	23,098
	43	HOUSTON	22,911
	44	BRITISH COLUMBIA	22,833
	45	MARYLAND	21,756
	46	DELAWARE	21,637
	47	ALBERTA +	21,422
	48	CONNECTICUT +	21,349
	49	MIT +	21,296
	50	SOUTHERN ILLINOIS	21,283
	51	SYRACUSE	21,244
	52	WASHINGTON STATE +	21,098
	53	GEORGETOWN	21,035
	54	PURDUE	20,884
	55	KENTUCKY	20,759
	56	OREGON	20,536
	57	DARTMOUTH	20,414
	58	CALIF.,SAN DIEGO	20,273
	59	IOWA STATE +	20,244
	60	JOHNS HOPKINS +	20,177
	61	VPI & SU +	20,040
9	62	CINCINNATI	19,588
	63	WESTERN ONTARIO +	19,375
	64	MICHIGAN STATE	19,175
	65	SOUTH CAROLINA +	19,163
	66	RUTGERS	19,041
	67	YORK	18,598
	68	EMORY +	18,383
	69	MCGILL	18,262
	70	VANDERBILT	18,098
	71	WASHINGTON U-ST. LOUIS	17,884
	72	BRIGHAM YOUNG +	17,847
	73	FLORIDA STATE	17,699
	74	TEXAS A&M	17,661
	75	OKLAHOMA	17,417
	76	MISSOURI	17,407
	77	ALABAMA	17,389
	78	CALIF.,IRVINE	17,369
	79	MIAMI	16,487
	80	SUNY-ALBANY	16,399
	81	TEMPLE +	16,296
	82	MASSACHUSETTS	15,954
	83	NOTRE DAME	15,871
	84	CALIF.,SANTA BARBARA	15,600
	85	QUEEN'S	15,560
	86	TULANE	15,480
	87	BROWN +	15,470
	88	NORTH CAROLINA STATE	15,373
	89	WATERLOO +	15,000
	90	TENNESSEE +	14,372
	91	UTAH	14,348
	92	LAVAL +	14,142
	93	ROCHESTER +	13,876
	94	CASE WESTERN RESERVE	13,854
	95	COLORADO	13,755
	96	CALIF.,RIVERSIDE +	13,615
	97	SUNY-STONY BROOK	12,331
	98	MANITOBA	12,020
	99	COLORADO STATE	12,018
	100	RICE +	11,721
	101	MCMASTER	11,198
	102	NEW MEXICO	10,669
	103	GUELPH	10,219
	104	OKLAHOMA STATE	10,101
	105	SASKATCHEWAN	10,092
10	106	KENT STATE	7,349

U/A - Unavailable

+ - Includes government document serials

RANK ORDER TABLE 4: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- under 1,000

Gp	Rank	Institution	Value
1	1	WASHINGTON	4,693,784
	2	HARVARD	4,570,476
	3	CORNELL	4,293,561
	4	MISSOURI	4,198,365
	5	VPI & SU	4,110,249
	6	CALIF.,LOS ANGELES	4,098,607
2	7	TEXAS	3,839,532
	8	VIRGINIA	3,783,903
	9	CALIF.,BERKELEY	3,592,199
	10	GEORGIA	3,589,159
	11	COLUMBIA	3,522,715
	12	MARYLAND	3,521,598
3	13	ARIZONA	3,380,759
	14	TEXAS A&M	3,271,036
	15	MICHIGAN	3,261,743
	16	SUNY-BUFFALO	3,254,467
	17	SYRACUSE	3,146,128
	18	ILLINOIS	3,064,421
4	19	STANFORD	2,974,699
	20	HOUSTON	2,925,459
	21	WISCONSIN	2,907,495
	22	IOWA	2,894,806
	23	OHIO STATE	2,866,174
	24	NEW MEXICO	2,863,793
	25	PENNSYLVANIA STATE	2,802,163
	26	NORTH CAROLINA STATE	2,772,551
	27	GEORGIA TECH	2,766,955
	28	MINNESOTA	2,746,932
	29	FLORIDA	2,701,120
	30	NORTH CAROLINA	2,629,539
	31	YALE	2,613,359
	32	ARIZONA STATE	2,568,423
	33	SUNY-STONY BROOK	2,561,817
	34	OKLAHOMA	2,561,362
	35	FLORIDA STATE	2,526,918
5	36	CALIF.,DAVIS	2,479,110
	37	BOSTON	2,466,264
	38	HOWARD	2,437,773
	39	RUTGERS	2,437,099
	40	SOUTHERN ILLINOIS	2,407,632
	41	ALBERTA	2,400,285
	42	WASHINGTON STATE	2,356,530
	43	CONNECTICUT	2,355,577
	44	HAWAII	2,350,040
	45	SOUTH CAROLINA	2,327,945
	46	ROCHESTER	2,270,461
	47	UTAH	2,245,158
	48	NEW YORK	2,234,033
	49	PRINCETON	2,217,529
	50	PITTSBURGH	2,151,218
	51	CALIF.,SANTA BARBARA	2,119,074
	52	NEBRASKA	2,109,735
	53	KENTUCKY	2,091,475
6	54	IOWA STATE	1,957,937
	55	CINCINNATI	1,953,733
	56	SOUTHERN CALIFORNIA	1,937,633
	57	DARTMOUTH	1,925,486
	58	WESTERN ONTARIO	1,883,430
	59	KANSAS	1,865,867
	60	WAYNE STATE	1,845,449
	61	NORTHWESTERN	1,752,790
	62	RICE	1,741,570
	63	TENNESSEE	1,741,261
	64	SASKATCHEWAN	1,725,938
	65	TULANE	1,699,685
	66	PURDUE	1,683,836
	67	OREGON	1,628,570
	68	GEORGETOWN	1,603,523
	69	EMORY	1,588,148
	70	MIT	1,563,722
	71	DELAWARE	1,535,016
	72	MASSACHUSETTS	1,523,919
	73	BRIGHAM YOUNG	1,522,450
	74	QUEEN'S	1,517,341
	75	WASHINGTON U-ST. LOUIS	1,516,826
	76	MICHIGAN STATE	1,500,911
7	77	CHICAGO	1,428,944
	78	VANDERBILT	1,422,902
	79	JOHNS HOPKINS	1,391,486
	80	LOUISIANA STATE	1,354,837
	81	TEMPLE	1,339,672
	82	INDIANA	1,280,009
	83	ALABAMA	1,236,456
	84	CALIF.,SAN DIEGO	1,224,024
	85	CALIF.,IRVINE	1,219,135
	86	DUKE	1,211,947
	87	CALIF.,RIVERSIDE	1,154,347
	88	NOTRE DAME	1,089,486
	89	COLORADO	1,033,108
	90	GUELPH	1,027,115
	91	BROWN	1,010,973
	92	PENNSYLVANIA	1,008,715
	93	TORONTO	1,003,290
8	94	MIAMI	938,192
	95	MANITOBA	930,793
	96	BRITISH COLUMBIA	873,119
	97	MCGILL	870,989
	98	KENT STATE	764,952
	99	LAVAL	718,667
	100	WATERLOO	696,187
	101	OKLAHOMA STATE	693,731
	102	YORK	664,235
	103	CASE WESTERN RESERVE	606,631
	104	SUNY-ALBANY	547,592
	105	MCMASTER	382,263
	106	COLORADO STATE	154,940

U/A - Unavailable

RANK ORDER TABLE 5: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 5,500 and over
2- 5,000-5,499
3- 4,500-4,999
4- 4,000-4,499
5- 3,500-3,999
6- 3,000-3,499
7- 2,500-2,999
8- 2,000-2,499
9- 1,500-1,999
10- 1,000-1,499

Gp	Rank	Institution	Value
1	1	HARVARD	9,412,545
	2	CALIF.,LOS ANGELES	7,451,635
	3	STANFORD	6,926,166
	4	MICHIGAN	6,696,724
	5	YALE	6,434,100
	6	CALIF.,BERKELEY	6,063,143
	7	CORNELL	5,624,001
2	8	TORONTO	5,102,068
	9	COLUMBIA	5,042,399
	10	WISCONSIN	5,013,892
3	11	VIRGINIA	4,822,066
	12	OHIO STATE	4,812,159
	13	MASSACHUSETTS	4,779,522
	14	NORTH CAROLINA	4,753,550
	15	PRINCETON	4,740,009
	16	TEXAS	4,716,862
	17	ILLINOIS	4,699,094
	18	MINNESOTA	4,555,790
	19	ARIZONA STATE	4,502,040
4	20	ARIZONA	4,490,859
	21	WASHINGTON	4,474,133
	22	CALIF.,DAVIS	4,332,014
	23	IOWA	4,294,461
	24	INDIANA	4,277,556
	25	DUKE	4,218,253
	26	RUTGERS	4,100,876
	27	CHICAGO	4,097,331
	28	HOWARD	4,097,251
	29	PENNSYLVANIA STATE	4,028,387
	30	NEW YORK	4,003,520
5	31	GEORGIA	3,997,077
	32	FLORIDA	3,951,100
	33	BRITISH COLUMBIA	3,739,913
	34	SOUTHERN CALIFORNIA	3,739,162
	35	TEXAS A&M	3,671,669
	36	CALIF.,SAN DIEGO	3,661,659
	37	KANSAS	3,534,667
	38	VPI & SU	3,512,342
6	39	LOUISIANA STATE	3,493,493
	40	MICHIGAN STATE	3,369,794
	41	MARYLAND	3,365,992
	42	JOHNS HOPKINS	3,347,091
	43	MCGILL	3,307,089
	44	CALIF.,SANTA BARBARA	3,283,591
	45	PENNSYLVANIA	3,275,919
	46	WAYNE STATE	3,261,003
	47	DELAWARE	3,200,760
	48	EMORY	3,168,847
	49	PITTSBURGH	3,136,023
	50	CALIF.,IRVINE	3,123,513
	51	CINCINNATI	3,123,419
	52	ALBERTA	3,114,548
7	53	FLORIDA STATE	3,108,096
	54	SUNY-BUFFALO	3,058,479
	55	ROCHESTER	3,036,813
	56	NORTHWESTERN	3,026,379
	57	VANDERBILT	2,968,063
	58	GEORGETOWN	2,958,860
	59	KENTUCKY	2,940,701
	60	WASHINGTON U-ST. LOUIS	2,939,533
	61	NEBRASKA	2,925,387
	62	NORTH CAROLINA STATE	2,925,028
	63	CONNECTICUT	2,919,961
	64	BRIGHAM YOUNG	2,903,688
	65	BOSTON	2,845,175
	66	SUNY-STONY BROOK	2,792,422
	67	MIAMI	2,743,730
	68	TULANE	2,735,330
	69	IOWA STATE	2,709,097
	70	PURDUE	2,685,140
	71	SYRACUSE	2,676,335
	72	COLORADO	2,638,857
	73	WESTERN ONTARIO	2,623,408
	74	MCMASTER	2,603,995
	75	OREGON	2,589,515
	76	NOTRE DAME	2,543,074
	77	DARTMOUTH	2,507,183
8	78	SOUTHERN ILLINOIS	2,489,160
	79	HAWAII	2,474,488
	80	MIT	2,466,682
	81	HOUSTON	2,459,451
	82	ALABAMA	2,398,083
	83	QUEEN'S	2,368,481
	84	OKLAHOMA	2,355,542
	85	CALIF.,RIVERSIDE	2,349,757
	86	BROWN	2,328,290
	87	YORK	2,300,820
	88	WASHINGTON STATE	2,292,844
	89	MISSOURI	2,286,117
	90	TEMPLE	2,285,723
	91	LAVAL	2,248,717
	92	SOUTH CAROLINA	2,223,541
	93	SASKATCHEWAN	2,136,839
	94	NEW MEXICO	2,122,486
	95	SUNY-ALBANY	2,116,076
	96	UTAH	2,090,535
	97	TENNESSEE	2,046,187
	98	RICE	2,035,206
	99	CASE WESTERN RESERVE	2,020,862
9	100	WATERLOO	1,944,011
	101	COLORADO STATE	1,715,111
	102	MANITOBA	1,711,961
	103	GUELPH	1,622,799
	104	OKLAHOMA STATE	1,580,689
	105	GEORGIA TECH	1,538,691
10	106	KENT STATE	1,283,696

U/A - Unavailable

RANK ORDER TABLE 6: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 10,000 and over
2- 9,000-9,999
3- 8,000-8,999
4- 7,000-7,999
5- 6,000-6,999
6- 5,000-5,999
7- 4,000-4,999
8- 3,000-3,999
9- 2,000-2,999
10- 1,000-1,999

Gp	Rank	Institution	Value
1	1	HARVARD	19,393,865
	2	CALIF.,BERKELEY	16,975,231
	3	CALIF.,LOS ANGELES	16,120,774
	4	STANFORD	14,673,523
	5	TORONTO	12,780,368
	6	YALE	11,817,400
	7	COLUMBIA	11,288,321
2	8	RUTGERS	9,542,557
	9	MICHIGAN	9,383,208
	10	WISCONSIN	9,284,655
	11	MINNESOTA	9,062,207
3	12	CORNELL	8,757,297
	13	TEXAS	8,754,959
	14	ILLINOIS	8,503,997
	15	WASHINGTON	8,130,675
	16	PENNSYLVANIA STATE	8,077,636
4	17	OHIO STATE	7,947,062
	18	ALBERTA	7,311,359
	19	NEW YORK	7,152,544
	20	BRITISH COLUMBIA	7,140,546
	21	NORTH CAROLINA	7,067,057
	22	PENNSYLVANIA	7,061,150
	23	PRINCETON	7,003,691
5	24	CALIF.,DAVIS	6,872,660
	25	INDIANA	6,813,032
	26	MCGILL	6,346,480
	27	CALIF.,SAN DIEGO	6,324,751
	28	VIRGINIA	6,263,267
	29	SOUTHERN CALIFORNIA	6,221,521
	30	NORTHWESTERN	6,209,300
	31	CHICAGO	6,121,011
6	32	ARIZONA	5,796,913
	33	CALIF.,SANTA BARBARA	5,719,782
	34	DUKE	5,685,770
	35	FLORIDA	5,592,764
	36	LAVAL	5,495,615
	37	MARYLAND	5,491,648
	38	JOHNS HOPKINS	5,485,684
	39	MICHIGAN STATE	5,452,527
	40	CINCINNATI	5,366,769
	41	PITTSBURGH	5,299,109
	42	ARIZONA STATE	5,164,093
	43	MIT	5,124,287
	44	CALIF.,IRVINE	5,090,229
	45	SUNY-BUFFALO	5,082,337
	46	GEORGIA	5,006,155
7	47	HOWARD	4,981,579
	48	CONNECTICUT	4,743,067
	49	GEORGETOWN	4,646,869
	50	KANSAS	4,606,323
	51	WESTERN ONTARIO	4,443,522
	52	WAYNE STATE	4,396,543
	53	HAWAII	4,395,109
	54	IOWA	4,385,445
	55	MASSACHUSETTS	4,337,847
	56	EMORY	4,293,963
	57	YORK	4,113,290
	58	BOSTON	4,098,471
	59	BRIGHAM YOUNG	4,072,292
	60	TEXAS A&M	4,033,353
	61	MANITOBA	4,013,516
8	62	TEMPLE	3,955,535
	63	SOUTHERN ILLINOIS	3,952,385
	64	VANDERBILT	3,910,568
	65	COLORADO	3,879,658
	66	KENTUCKY	3,868,152
	67	PURDUE	3,832,242
	68	LOUISIANA STATE	3,804,323
	69	WASHINGTON U-ST. LOUIS	3,798,552
	70	SUNY-STONY BROOK	3,794,689
	71	ROCHESTER	3,777,919
	72	MIAMI	3,726,053
	73	SYRACUSE	3,668,531
	74	BROWN	3,593,154
	75	NEW MEXICO	3,578,984
	76	CALIF.,RIVERSIDE	3,512,081
	77	KENT STATE	3,507,252
	78	NORTH CAROLINA STATE	3,487,348
	79	WASHINGTON STATE	3,485,996
	80	WATERLOO	3,468,651
	81	TENNESSEE	3,429,982
	82	SOUTH CAROLINA	3,404,220
	83	QUEEN'S	3,398,804
	84	MCMASTER	3,396,525
	85	UTAH	3,220,595
	86	IOWA STATE	3,217,465
	87	SUNY-ALBANY	3,108,792
	88	SASKATCHEWAN	3,096,186
	89	CASE WESTERN RESERVE	3,069,422
	90	MISSOURI	3,044,024
	91	OREGON	3,043,719
9	92	FLORIDA STATE	2,994,294
	93	VPI & SU	2,968,700
	94	DARTMOUTH	2,966,045
	95	DELAWARE	2,947,548
	96	TULANE	2,868,094
	97	HOUSTON	2,842,497
	98	NEBRASKA	2,829,775
	99	NOTRE DAME	2,829,150
	100	OKLAHOMA	2,720,765
	101	GUELPH	2,663,362
	102	COLORADO STATE	2,462,903
	103	ALABAMA	2,277,715
	104	OKLAHOMA STATE	2,165,494
	105	RICE	2,054,195
10	106	GEORGIA TECH	1,918,567

U/A - Unavailable

RANK ORDER TABLE 7: OTHER OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
6- 1,000-1,499
7- 500-999
8- under 500

Gp	Rank	Institution	Value
1	1	HARVARD	5,291,826
	2	CALIF.,LOS ANGELES	5,210,771
2	3	STANFORD	3,879,807
	4	MINNESOTA	3,876,519
3	5	CALIF.,BERKELEY	3,336,969
	6	YALE	3,300,100
	7	COLUMBIA	3,186,353
	8	WASHINGTON	3,155,981
4	9	CORNELL	2,942,931
	10	CHICAGO	2,885,680
	11	WISCONSIN	2,713,727
	12	TEXAS	2,616,890
	13	NEW YORK	2,583,913
	14	SOUTHERN CALIFORNIA	2,581,672
	15	PITTSBURGH	2,561,403
	16	PENNSYLVANIA STATE	2,556,275
5	17	MICHIGAN	2,476,779
	18	OHIO STATE	2,394,774
	19	TORONTO	2,299,678
	20	BROWN	2,155,454
	21	WAYNE STATE	2,105,446
6	22	VIRGINIA	1,957,737
	23	WASHINGTON U-ST. LOUIS	1,944,153
	24	PENNSYLVANIA	1,938,376
	25	KANSAS	1,935,324
	26	ILLINOIS	1,911,970
	27	BOSTON	1,904,238
	28	NORTH CAROLINA	1,898,587
	29	CINCINNATI	1,884,425
	30	JOHNS HOPKINS	1,877,845
	31	MARYLAND	1,832,367
	32	PRINCETON	1,745,801
	33	RUTGERS	1,633,840
	34	CALIF.,SAN DIEGO	1,617,881
	35	INDIANA	1,612,427
	36	VANDERBILT	1,592,651
	37	MIT	1,567,816
	38	KENT STATE	1,514,655
7	39	EMORY	1,475,763
	40	ARIZONA STATE	1,473,936
	41	GEORGETOWN	1,393,771
	42	UTAH	1,387,691
	43	GEORGIA	1,378,939
	44	MICHIGAN STATE	1,376,464
	45	CALIF.,IRVINE	1,373,219
	46	KENTUCKY	1,360,116
	47	DUKE	1,330,367
	48	MIAMI	1,323,107
	49	ALBERTA	1,258,820
	50	SYRACUSE	1,254,255
	51	CALIF.,DAVIS	1,253,315
	52	NORTHWESTERN	1,221,529
	53	MCGILL	1,202,250
	54	TEXAS A&M	1,181,031
	55	FLORIDA	1,179,302
	56	ARIZONA	1,176,164
	57	CALIF.,SANTA BARBARA	1,145,663
	58	SUNY-BUFFALO	1,067,258
	59	DELAWARE	1,061,841
8	60	YORK	993,969
	61	HAWAII	989,219
	62	IOWA	959,279
	63	MISSOURI	946,046
	64	WASHINGTON STATE	906,321
	65	CONNECTICUT	887,561
	66	BRIGHAM YOUNG	878,860
	67	DARTMOUTH	873,521
	68	BRITISH COLUMBIA	867,289
	69	ROCHESTER	845,058
	70	HOWARD	833,568
	71	TULANE	818,792
	72	VPI & SU	794,217
	73	TEMPLE	784,516
	74	NOTRE DAME	742,552
	75	NEW MEXICO	740,243
	76	CASE WESTERN RESERVE	709,128
	77	PURDUE	707,494
	78	RICE	691,808
	79	COLORADO STATE	691,461
	80	LAVAL	684,099
	81	NORTH CAROLINA STATE	678,442
	82	MASSACHUSETTS	615,694
	83	CALIF.,RIVERSIDE	615,526
	84	GEORGIA TECH	608,533
	85	SOUTHERN ILLINOIS	608,397
	86	LOUISIANA STATE	601,725
	87	OKLAHOMA	596,055
	88	HOUSTON	574,102
	89	OREGON	573,507
	90	SUNY-STONY BROOK	566,981
	91	NEBRASKA	562,710
	92	COLORADO	546,867
9	93	OKLAHOMA STATE	492,101
	94	ALABAMA	489,328
	95	WATERLOO	455,636
	96	SUNY-ALBANY	440,032
	97	MANITOBA	437,304
	98	MCMASTER	418,204
	99	SOUTH CAROLINA	407,541
	100	FLORIDA STATE	393,272
	101	WESTERN ONTARIO	377,401
	102	IOWA STATE	366,778
	103	TENNESSEE	327,425
	104	SASKATCHEWAN	312,880
	105	QUEEN'S	309,088
	106	GUELPH	136,822

U/A - Unavailable

RANK ORDER TABLE 8: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 16,000 and over	8- 9,000-9,999
2- 15,000-15,999	9- 8,000-8,999
3- 14,000-14,999	10- 7,000-7,999
4- 13,000-13,999	11- 6,000-6,999
5- 12,000-12,999	12- 5,000-5,999
6- 11,000-11,999	13- 4,000-4,999
7- 10,000-10,999	14- 3,000-3,999

Gp	Rank	Institution	Value
1	1	HARVARD	34,792,739
	2	CALIF.,LOS ANGELES	29,428,949
	3	CALIF.,BERKELEY	26,998,169
	4	STANFORD	25,852,247
	5	YALE	21,855,300
	6	TORONTO	20,374,225
	7	COLUMBIA	20,008,645
	8	MICHIGAN	18,851,310
	9	MINNESOTA	17,881,544
	10	CORNELL	17,517,507
	11	WISCONSIN	17,253,886
2	12	TEXAS	16,258,070
	13	WASHINGTON	16,041,230
3	14	RUTGERS	15,664,381
	15	OHIO STATE	15,397,844
	16	ILLINOIS	15,346,678
4	17	PENNSYLVANIA STATE	14,895,629
5	18	NEW YORK	13,978,558
	19	NORTH CAROLINA	13,967,683
	20	PRINCETON	13,762,225
	21	CHICAGO	13,424,913
	22	VIRGINIA	13,258,591
6	23	INDIANA	12,935,746
	24	CALIF.,DAVIS	12,808,628
	25	SOUTHERN CALIFORNIA	12,685,658
	26	PENNSYLVANIA	12,599,830
7	27	CALIF.,SAN DIEGO	11,967,176
	28	BRITISH COLUMBIA	11,893,424
	29	ARIZONA	11,807,837
	30	ALBERTA	11,785,086
	31	ARIZONA STATE	11,436,506
	32	DUKE	11,398,777
	33	PITTSBURGH	11,162,154
8	34	MCGILL	10,982,859
	35	FLORIDA	10,952,533
	36	MARYLAND	10,934,347
	37	JOHNS HOPKINS	10,831,473
	38	NORTHWESTERN	10,650,409
	39	GEORGIA	10,609,060
	40	CINCINNATI	10,519,089
	41	MICHIGAN STATE	10,397,545
	42	CALIF.,SANTA BARBARA	10,376,881
	43	KANSAS	10,197,931
	44	HOWARD	10,045,835
9	45	WAYNE STATE	9,868,092
	46	CALIF.,IRVINE	9,838,430
	47	IOWA	9,829,382
	48	MASSACHUSETTS	9,825,395
	49	SUNY-BUFFALO	9,352,679
	50	MIT	9,292,380
	51	GEORGETOWN	9,149,465
	52	EMORY	9,061,297
	53	TEXAS A&M	9,022,614
10	54	BOSTON	8,990,001
	55	WASHINGTON U-ST. LOUIS	8,793,639
	56	CONNECTICUT	8,701,223
	57	VANDERBILT	8,588,061
	58	LAVAL	8,466,612
	59	KENTUCKY	8,282,161
	60	BROWN	8,225,474
	61	LOUISIANA STATE	8,095,082
	62	HAWAII	8,035,702
11	63	BRIGHAM YOUNG	7,957,247
	64	MIAMI	7,921,184
	65	ROCHESTER	7,772,439
	66	SYRACUSE	7,677,311
	67	WESTERN ONTARIO	7,563,768
	68	YORK	7,552,081
	69	VPI & SU	7,394,904
	70	DELAWARE	7,362,963
	71	PURDUE	7,350,599
	72	SUNY-STONY BROOK	7,268,991
	73	NORTH CAROLINA STATE	7,219,187
	74	COLORADO	7,181,127
	75	SOUTHERN ILLINOIS	7,158,730
	76	TEMPLE	7,128,893
12	77	UTAH	6,814,662
	78	WASHINGTON STATE	6,773,071
	79	FLORIDA STATE	6,657,342
	80	CALIF.,RIVERSIDE	6,629,959
	81	TULANE	6,552,253
	82	NEW MEXICO	6,522,692
	83	MCMASTER	6,486,524
	84	IOWA STATE	6,449,772
	85	MISSOURI	6,441,179
	86	DARTMOUTH	6,438,581
	87	NEBRASKA	6,429,384
	88	OREGON	6,408,666
	89	KENT STATE	6,377,416
	90	MANITOBA	6,241,521
	91	NOTRE DAME	6,234,615
	92	QUEEN'S	6,164,613
	93	SOUTH CAROLINA	6,152,360
13	94	HOUSTON	5,945,170
	95	WATERLOO	5,925,791
	96	TENNESSEE	5,909,115
	97	CASE WESTERN RESERVE	5,884,392
	98	OKLAHOMA	5,745,844
	99	SUNY-ALBANY	5,735,900
	100	SASKATCHEWAN	5,619,647
	101	ALABAMA	5,244,022
14	102	COLORADO STATE	4,959,475
	103	RICE	4,826,953
	104	GUELPH	4,487,507
	105	OKLAHOMA STATE	4,322,554
	106	GEORGIA TECH	4,154,159

U/A - Unavailable

RANK ORDER TABLE 9: MONOGRAPHS PURCHASED (VOLUMES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 100,000 and over
2- 90,000-99,999
3- 80,000-89,999
4- 70,000-79,999
5- 60,000-69,999
6- 50,000-59,999
7- 40,000-49,999
8- 30,000-39,999
9- 20,000-29,999
10- 10,000-19,999
11- under 10,000

Gp	Rank	Institution	Value
1	1	YALE	133,383
3	2	IOWA	85,858
	3	BRIGHAM YOUNG	82,028
4	4	ILLINOIS	78,056
	5	ARIZONA	72,807
	6	VIRGINIA	71,947
5	7	CHICAGO	68,707
	8	PRINCETON	68,266
	9	OHIO STATE	66,630
	10	NORTH CAROLINA	63,850
6	11	BRITISH COLUMBIA	59,703
	12	CALIF.,DAVIS	56,783
	13	OREGON	54,913
	14	CALIF.,SAN DIEGO	51,633
	15	RUTGERS	50,719
	16	MICHIGAN STATE	50,057
7	17	INDIANA	49,900
	18	DUKE	48,305
	19	KANSAS	45,129
	20	FLORIDA	44,627
	21	JOHNS HOPKINS	43,658
	22	BROWN	43,176
	23	COLUMBIA	42,996
	24	CALIF.,RIVERSIDE	40,500
8	25	MCGILL	37,834
	26	MASSACHUSETTS	37,710
	27	ALBERTA	37,258
	28	HOWARD	36,929
	29	NEW YORK	35,245
	30	MARYLAND	35,120
	31	GEORGETOWN	34,643
	32	NORTHWESTERN	32,402
	33	CALIF.,IRVINE	32,258
	34	NORTH CAROLINA STATE	31,684
	35	WASHINGTON	31,604
	36	LOUISIANA STATE	31,479
	37	WESTERN ONTARIO	31,422
	38	MCMASTER	30,640
9	39	TEXAS A&M	29,951
	40	MIAMI	29,338
	41	WAYNE STATE	28,836
	42	WATERLOO	27,214
	43	SUNY-STONY BROOK	27,060
	44	NOTRE DAME	27,036
	45	QUEEN'S	26,276
	46	SOUTHERN CALIFORNIA	26,204
	47	NEBRASKA	26,124
	48	TEMPLE	26,099
	49	IOWA STATE	24,911
	50	SYRACUSE	24,613
	51	NEW MEXICO	24,602
	52	VPI & SU	24,191
	53	TULANE	24,116
	54	WASHINGTON STATE	23,718
	55	COLORADO	23,663
	56	WASHINGTON U-ST. LOUIS	23,628
	57	LAVAL	23,542
	58	KENTUCKY	22,910
	59	HOUSTON	22,560
	60	GUELPH	21,869
	61	BOSTON	21,831
	62	KENT STATE	21,517
	63	SOUTH CAROLINA	21,386
	64	MIT	21,290
	65	SUNY-ALBANY	21,109
	66	ALABAMA	20,948
	67	TENNESSEE	20,748
	68	SOUTHERN ILLINOIS	20,688
10	69	ROCHESTER	19,063
	70	CASE WESTERN RESERVE	18,460
	71	OKLAHOMA	17,867
	72	MISSOURI	17,684
	73	PURDUE	16,533
	74	MANITOBA	16,212
	75	SASKATCHEWAN	15,144
	76	COLORADO STATE	14,974
	77	OKLAHOMA STATE	12,861
11	78	GEORGIA TECH	4,499
		ARIZONA STATE	U/A
		CALIF.,BERKELEY	U/A
		CALIF.,LOS ANGELES	U/A
		CALIF.,SANTA BARBARA	U/A
		CINCINNATI	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DARTMOUTH	U/A
		DELAWARE	U/A
		EMORY	U/A
		FLORIDA STATE	U/A
		GEORGIA	U/A
		HARVARD	U/A
		HAWAII	U/A
		MICHIGAN	U/A
		MINNESOTA	U/A
		PENNSYLVANIA	U/A
		PENNSYLVANIA STATE	U/A
		PITTSBURGH	U/A
		RICE	U/A
		STANFORD	U/A
		SUNY-BUFFALO	U/A
		TEXAS	U/A
		TORONTO	U/A
		UTAH	U/A
		VANDERBILT	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 10: EXPENDITURES FOR MONOGRAPHS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- 500- 999
9- under 500

Gp	Rank	Institution	Value
1	1	CALIF.,LOS ANGELES +	4,274,884
	2	HARVARD	4,257,299
2	3	STANFORD +	3,842,453
4	4	CALIF.,BERKELEY +	2,520,632
	5	TORONTO +	2,501,288
5	6	PRINCETON	2,465,555
	7	ARIZONA STATE	2,428,262
	8	COLUMBIA	2,133,496
	9	OHIO STATE +	2,086,743
	10	TEXAS +	2,074,340
	11	VIRGINIA	2,062,710
	12	NORTH CAROLINA	2,011,676
6	13	CHICAGO +	1,972,256
	14	CALIF.,SAN DIEGO	1,871,457
	15	YALE	1,845,600
	16	IOWA	1,840,828
	17	DELAWARE +	1,804,676
	18	BRITISH COLUMBIA +	1,798,469
	19	ILLINOIS +	1,699,280
	20	CALIF.,DAVIS	1,676,615
	21	WISCONSIN	1,648,909
	22	INDIANA	1,627,279
	23	DUKE	1,598,277
	24	MICHIGAN STATE +	1,592,167
	25	MINNESOTA	1,582,180
	26	MASSACHUSETTS	1,554,132
	27	FLORIDA	1,549,817
	28	RUTGERS	1,538,841
7	29	PENNSYLVANIA STATE +	1,498,064
	30	HOWARD	1,495,240
	31	KANSAS	1,467,897
	32	BRIGHAM YOUNG	1,428,249
	33	FLORIDA STATE	1,422,155
	34	UTAH +	1,409,261
	35	ARIZONA	1,391,222
	36	CONNECTICUT +	1,350,229
	37	CALIF.,SANTA BARBARA	1,315,640
	38	TEXAS A&M	1,239,235
	39	CINCINNATI	1,229,417
	40	WASHINGTON	1,226,677
	41	EMORY	1,192,387
	42	PENNSYLVANIA +	1,191,728
	43	GEORGETOWN	1,167,740
	44	MCMASTER +	1,155,050
	45	MARYLAND	1,145,580
	46	NEW YORK	1,119,545
	47	TULANE +	1,107,233
	48	PITTSBURGH	1,105,642
	49	JOHNS HOPKINS	1,103,959
	50	LOUISIANA STATE	1,103,535
	51	VANDERBILT +	1,080,045
	52	SOUTHERN CALIFORNIA	1,066,968
	53	MIAMI	1,064,484
	54	SUNY-STONY BROOK	1,057,023
	55	BROWN +	1,055,875
	56	CALIF.,IRVINE	1,050,612
	57	NOTRE DAME	1,026,245
	58	VPI & SU +	1,025,415
	59	ROCHESTER	1,011,343
	60	CALIF.,RIVERSIDE	1,005,098
8	61	GEORGIA	979,838
	62	MCGILL	972,461
	63	OREGON +	971,517
	64	NORTHWESTERN	956,640
	65	BOSTON	921,566
	66	YORK	906,657
	67	KENTUCKY	900,304
	68	HAWAII	892,310
	69	IOWA STATE	855,090
	70	QUEEN'S	841,744
	71	TEMPLE	835,000
	72	NORTH CAROLINA STATE	828,709
	73	SUNY-BUFFALO	811,750
	74	DARTMOUTH	797,614
	75	WESTERN ONTARIO +	793,791
	76	RICE	787,309
	77	MISSOURI	786,414
	78	NEBRASKA +	782,278
	79	ALBERTA +	765,211
	80	ALABAMA	750,456
	81	PURDUE	749,226
	82	LAVAL	702,573
	83	MIT	700,808
	84	WAYNE STATE	699,054
	85	WATERLOO	692,250
	86	SOUTH CAROLINA +	688,036
	87	COLORADO	683,815
	88	SYRACUSE	675,593
	89	WASHINGTON STATE	671,749
	90	TENNESSEE +	658,776
	91	WASHINGTON U-ST. LOUIS	656,227
	92	NEW MEXICO	649,706
	93	SOUTHERN ILLINOIS	639,417
	94	OKLAHOMA	629,423
	95	SASKATCHEWAN +	622,660
	96	SUNY-ALBANY	599,230
	97	HOUSTON	593,354
	98	COLORADO STATE	545,840
	99	CASE WESTERN RESERVE	513,006
9	100	GUELPH	465,212
	101	OKLAHOMA STATE	443,736
	102	MANITOBA +	433,925
	103	KENT STATE	419,962
	104	GEORGIA TECH	232,919
		CORNELL	U/A
		MICHIGAN	U/A

U/A - Unavailable + - Also includes expenditures for Other Library Materials

RANK ORDER TABLE 11: SERIALS PURCHASED (TITLES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 40,000-49,999
3- 30,000-39,999
4- 20,000-29,999
5- 10,000-19,999
6- under 10,000

Gp	Rank	Institution	Value
2	1	GEORGIA	42,990
3	2	CALIF.,DAVIS	37,683
	3	YALE	35,712
	4	MICHIGAN	34,309
	5	INDIANA	33,645
	6	TORONTO	30,945
4	7	MINNESOTA	29,642
	8	ARIZONA	28,075
	9	NEW YORK	27,919
	10	HAWAII	26,060
	11	FLORIDA	25,727
	12	NORTH CAROLINA	25,173
	13	DUKE	25,004
	14	HOWARD	24,798
	15	IOWA	24,413
	16	COLUMBIA	23,963
	17	OHIO STATE	23,059
	18	HOUSTON	22,003
	19	VIRGINIA	20,880
5	20	ALBERTA	19,684
	21	MARYLAND	19,266
	22	SUNY-BUFFALO	19,245
	23	LOUISIANA STATE	19,179
	24	GEORGIA TECH	19,011
	25	GEORGETOWN	18,968
	26	BRITISH COLUMBIA	18,643
	27	PURDUE	17,900
	28	KANSAS	17,764
	29	BOSTON	17,577
	30	WASHINGTON U-ST. LOUIS	17,524
	31	VPI & SU	17,440
	32	ALABAMA	17,102
	33	OKLAHOMA	16,683
	34	DARTMOUTH	16,518
	35	TEXAS A&M	16,510
	36	WAYNE STATE	16,436
	37	SUNY-ALBANY	16,399
	38	CALIF.,IRVINE	16,272
	39	MICHIGAN STATE	15,752
	40	JOHNS HOPKINS	15,641
	41	OREGON	15,477
	42	FLORIDA STATE	15,473
	43	MCGILL	14,754
	44	IOWA STATE	14,127
	45	TEMPLE	14,096
	46	MASSACHUSETTS	14,012
	47	SOUTHERN CALIFORNIA	13,979
	48	WASHINGTON STATE	13,725
	49	MISSOURI	13,398
	50	BROWN	13,212
	51	CASE WESTERN RESERVE	13,200
	52	COLORADO	13,044
	53	NORTH CAROLINA STATE	12,601
	54	TENNESSEE	12,296
	55	ROCHESTER	12,059
	56	MANITOBA	10,794
	57	BRIGHAM YOUNG	10,708
	58	MCMASTER	10,541
	59	LAVAL	10,361
6	60	CALIF.,RIVERSIDE	9,767
	61	WATERLOO	9,525
	62	MIT	9,491
	63	OKLAHOMA STATE	9,024
	64	COLORADO STATE	8,573
	65	KENT STATE	6,849
		ARIZONA STATE	U/A
		CALIF.,BERKELEY	U/A
		CALIF.,LOS ANGELES	U/A
		CALIF.,SAN DIEGO	U/A
		CALIF.,SANTA BARBARA	U/A
		CHICAGO	U/A
		CINCINNATI	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DELAWARE	U/A
		EMORY	U/A
		GUELPH	U/A
		HARVARD	U/A
		ILLINOIS	U/A
		KENTUCKY	U/A
		MIAMI	U/A
		NEBRASKA	U/A
		NEW MEXICO	U/A
		NORTHWESTERN	U/A
		NOTRE DAME	U/A
		PENNSYLVANIA	U/A
		PENNSYLVANIA STATE	U/A
		PITTSBURGH	U/A
		PRINCETON	U/A
		QUEEN'S	U/A
		RICE	U/A
		RUTGERS	U/A
		SASKATCHEWAN	U/A
		SOUTH CAROLINA	U/A
		SOUTHERN ILLINOIS	U/A
		STANFORD	U/A
		SUNY-STONY BROOK	U/A
		SYRACUSE	U/A
		TEXAS	U/A
		TULANE	U/A
		UTAH	U/A
		VANDERBILT	U/A
		WASHINGTON	U/A
		WESTERN ONTARIO	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 12: EXPENDITURES FOR SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 2,700 and over
2- 2,500-2,699
3- 2,300-2,499
4- 2,100-2,299
5- 1,900-2,099
6- 1,700-1,899
7- 1,500-1,699
8- 1,300-1,499
9- 1,100-1,299
10- 900-1,099
11- 700- 899
12- under 700

Gp	Rank	Institution	Value
1	1	HARVARD	3,940,596
	2	CALIF.,BERKELEY	3,542,511
	3	MICHIGAN	3,276,806
	4	CALIF.,LOS ANGELES	3,176,751
	5	STANFORD	3,083,713
	6	WASHINGTON	3,005,302
	7	MINNESOTA	2,859,863
	8	ILLINOIS	2,818,445
	9	GEORGIA	2,799,485
	10	ARIZONA	2,727,719
	11	OHIO STATE	2,725,416
2	12	COLUMBIA	2,659,835
	13	YALE	2,649,500
	14	TEXAS	2,642,522
	15	TORONTO	2,600,780
	16	CALIF.,DAVIS	2,533,622
	17	WISCONSIN	2,533,524
	18	PENNSYLVANIA STATE	2,530,323
3	19	HOWARD	2,476,633
	20	NORTH CAROLINA	2,378,345
	21	ALBERTA	2,349,337
	22	VPI & SU	2,318,536
	23	RUTGERS	2,306,504
	24	NEW YORK	2,304,771
4	25	DUKE	2,222,916
	26	LOUISIANA STATE	2,197,811
	27	INDIANA	2,194,635
	28	CHICAGO	2,125,075
	29	VIRGINIA	2,119,484
	30	NEBRASKA	2,115,082
	31	SOUTHERN CALIFORNIA	2,106,928
5	32	PENNSYLVANIA	2,084,191
	33	TEXAS A&M	2,064,639
	34	IOWA	2,046,781
	35	WASHINGTON U-ST. LOUIS	2,032,205
	36	KANSAS	2,014,119
	37	SUNY-BUFFALO	2,007,236
	38	NORTHWESTERN	1,949,462
	39	BRITISH COLUMBIA	1,941,444
	40	ARIZONA STATE	1,936,319
	41	SYRACUSE	1,934,329
	42	PITTSBURGH	1,931,342
6	43	CINCINNATI	1,894,002
	44	PURDUE	1,891,688
	45	PRINCETON	1,891,118
	46	MARYLAND	1,869,666
	47	JOHNS HOPKINS	1,863,432
	48	CALIF.,IRVINE	1,835,253
	49	WESTERN ONTARIO	1,829,617
	50	ROCHESTER	1,800,579
	51	MICHIGAN STATE	1,777,627
	52	IOWA STATE	1,770,567
	53	FLORIDA	1,769,353
	54	SOUTHERN ILLINOIS	1,757,862
	55	COLORADO	1,705,558
7	56	CALIF.,SANTA BARBARA	1,699,262
	57	BOSTON	1,697,003
	58	KENTUCKY	1,694,712
	59	HOUSTON	1,688,912
	60	VANDERBILT	1,676,199
	61	WAYNE STATE	1,671,426
	62	NORTH CAROLINA STATE	1,651,237
	63	MIAMI	1,625,249
	64	WASHINGTON STATE	1,598,458
	65	OKLAHOMA	1,569,969
	66	CONNECTICUT	1,569,732
	67	DARTMOUTH	1,560,871
	68	EMORY	1,550,964
	69	MASSACHUSETTS	1,549,260
	70	FLORIDA STATE	1,536,745
	71	SOUTH CAROLINA	1,535,505
	72	MIT	1,527,514
	73	TULANE	1,522,883
	74	SASKATCHEWAN	1,514,179
8	75	HAWAII	1,486,529
	76	CALIF.,SAN DIEGO	1,454,297
	77	MCMASTER	1,443,530
	78	SUNY-STONY BROOK	1,427,818
	79	ALABAMA	1,423,350
	80	QUEEN'S	1,401,227
	81	DELAWARE	1,396,084
	82	TENNESSEE	1,387,411
	83	MISSOURI	1,373,144
	84	OREGON	1,340,333
	85	CASE WESTERN RESERVE	1,324,781
9	86	GEORGETOWN	1,293,757
	87	MCGILL	1,290,881
	88	MANITOBA	1,278,036
	89	BROWN	1,272,415
	90	LAVAL	1,249,074
	91	BRIGHAM YOUNG	1,247,709
	92	NOTRE DAME	1,246,460
	93	TEMPLE	1,242,295
	94	WATERLOO	1,224,673
	95	SUNY-ALBANY	1,223,291
	96	YORK	1,167,845
	97	CALIF.,RIVERSIDE	1,167,253
	98	NEW MEXICO	1,125,845
	99	RICE	1,117,640
10	100	OKLAHOMA STATE	1,073,965
	101	GEORGIA TECH	1,033,131
	102	GUELPH	925,073
	103	COLORADO STATE	902,541
11	104	KENT STATE	724,658
12	105	UTAH	681,274
		CORNELL	U/A

U/A - Unavailable

RANK ORDER TABLE 13: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 45,000-49,999
3- 40,000-44,999
4- 35,000-39,999
5- 30,000-34,999
6- 25,000-29,999
7- 20,000-24,999
8- 15,000-19,999
9- 10,000-14,999
10- 5,000- 9,999
11- under 5,000

Gp	Rank	Institution	Value
1	1	MINNESOTA	132,002
	2	ILLINOIS	131,498
	3	WISCONSIN	79,662
	4	WASHINGTON	78,824
	5	SOUTHERN ILLINOIS	59,181
	6	CALIF.,LOS ANGELES	56,850
2	7	IOWA	48,721
4	8	ARIZONA	38,604
	9	TEXAS A&M	38,579
	10	CALIF.,BERKELEY	38,054
	11	CASE WESTERN RESERVE	36,204
	12	KANSAS	35,985
5	13	CHICAGO	33,603
	14	FLORIDA	33,498
	15	HARVARD	32,864
	16	INDIANA	32,610
	17	CALIF.,DAVIS	32,466
	18	MCGILL	31,662
	19	ARIZONA STATE	30,964
	20	GEORGIA	30,937
	21	DUKE	30,286
6	22	SUNY-BUFFALO	28,576
	23	OHIO STATE	27,863
	24	OKLAHOMA	27,049
	25	MISSOURI	26,891
	26	CINCINNATI	25,904
	27	NORTH CAROLINA	25,486
7	28	NORTH CAROLINA STATE	24,592
	29	CONNECTICUT	24,246
	30	ROCHESTER	24,040
	31	CORNELL	23,097
	32	MICHIGAN	23,063
	33	VIRGINIA	23,007
	34	IOWA STATE	22,610
	35	FLORIDA STATE	21,868
	36	TORONTO	21,303
	37	EMORY	21,275
	38	PENNSYLVANIA STATE	21,042
	39	SUNY-STONY BROOK	20,664
	40	BOSTON	20,422
	41	WAYNE STATE	20,359
	42	STANFORD	20,314
8	43	COLUMBIA	19,830
	44	KENTUCKY	19,659
	45	MIAMI	19,274
	46	BRITISH COLUMBIA	19,035
	47	WASHINGTON U-ST. LOUIS	18,992
	48	SUNY-ALBANY	18,234
	49	WASHINGTON STATE	17,391
	50	NORTHWESTERN	17,171
	51	TENNESSEE	17,122
	52	NOTRE DAME	16,831
	53	COLORADO	16,621
	54	RUTGERS	16,595
	55	JOHNS HOPKINS	16,318
	56	CALIF.,SAN DIEGO	16,173
	57	VPI & SU	16,049
	58	PITTSBURGH	15,911
	59	MIT	15,787
	60	ALBERTA	15,702
	61	PENNSYLVANIA	15,670
	62	VANDERBILT	15,532
	63	HOUSTON	15,315
9	64	GEORGIA TECH	14,645
	65	RICE	14,642
	66	MARYLAND	14,240
	67	SOUTH CAROLINA	14,117
	68	MASSACHUSETTS	13,879
	69	CALIF.,IRVINE	13,606
	70	TEXAS	13,568
	71	COLORADO STATE	13,055
	72	OREGON	12,878
	73	MANITOBA	12,337
	74	DARTMOUTH	12,095
	75	LAVAL	11,936
	76	KENT STATE	11,783
	77	MCMASTER	11,522
	78	MICHIGAN STATE	11,245
	79	NEBRASKA	11,028
	80	PURDUE	11,007
	81	UTAH	10,578
	82	HAWAII	10,381
	83	SASKATCHEWAN	10,301
	84	NEW YORK	10,229
	85	OKLAHOMA STATE	10,103
10	86	BROWN	9,858
	87	BRIGHAM YOUNG	9,767
	88	DELAWARE	9,763
	89	LOUISIANA STATE	9,638
	90	NEW MEXICO	9,614
	91	WESTERN ONTARIO	9,305
	92	YALE	9,242
	93	TULANE	9,001
	94	CALIF.,RIVERSIDE	8,793
	95	CALIF.,SANTA BARBARA	7,937
	96	PRINCETON	7,717
	97	ALABAMA	7,573
	98	TEMPLE	7,430
	99	YORK	7,258
	100	SYRACUSE	6,972
	101	GEORGETOWN	6,111
	102	SOUTHERN CALIFORNIA	5,172
	103	WATERLOO	5,141
	104	QUEEN'S	5,030
11	105	HOWARD	3,169
	106	GUELPH	2,666

U/A - Unavailable

RANK ORDER TABLE 14: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 18,000 and over
2- 16,000-17,999
3- 14,000-15,999
4- 12,000-13,999
5- 10,000-11,999
6- 8,000-9,999
7- 6,000-7,999
8- 4,000-5,999
9- 2,000-3,999
10- under 2,000

Gp	Rank	Institution	Value
1	1	ILLINOIS	157,645
	2	BOSTON	40,278
	3	CALIF.,BERKELEY	18,946
2	4	KANSAS	17,136
3	5	JOHNS HOPKINS	14,406
4	6	OKLAHOMA	13,974
	7	TEXAS A&M	13,473
	8	ALBERTA	13,320
	9	PENNSYLVANIA	13,260
	10	SASKATCHEWAN	13,098
	11	MINNESOTA	12,625
5	12	COLORADO STATE	11,922
	13	RUTGERS	11,883
	14	OHIO STATE	11,715
	15	WISCONSIN	11,653
	16	CORNELL	11,621
	17	BRIGHAM YOUNG	11,421
	18	NORTHWESTERN	11,270
	19	CONNECTICUT	11,182
	20	MICHIGAN	11,096
	21	MIAMI	10,975
	22	PENNSYLVANIA STATE	10,920
	23	BRITISH COLUMBIA	10,519
	24	KENTUCKY	10,457
	25	ARIZONA STATE	10,244
	26	CALIF.,SANTA BARBARA	10,070
6	27	LAVAL	9,674
	28	WASHINGTON U-ST. LOUIS	9,236
	29	INDIANA	9,096
	30	CINCINNATI	9,030
	31	VANDERBILT	8,923
	32	TORONTO	8,869
	33	SUNY-BUFFALO	8,868
	34	NOTRE DAME	8,818
	35	COLORADO	8,816
	36	VIRGINIA	8,814
	37	NEW YORK	8,725
	38	CALIF.,RIVERSIDE	8,627
	39	TULANE	8,568
	40	CALIF.,LOS ANGELES	8,467
	41	CALIF.,IRVINE	8,430
	42	HARVARD	8,409
	43	SUNY-ALBANY	8,313
	44	UTAH	8,080
	45	HOUSTON	8,007
7	46	PITTSBURGH	7,985
	47	TEXAS	7,804
	48	IOWA	7,736
	49	ROCHESTER	7,602
	50	CALIF.,DAVIS	7,571
	50	MCGILL	7,571
	52	FLORIDA	7,570
	53	KENT STATE	7,387
	54	STANFORD	7,336
	55	MASSACHUSETTS	7,270
	56	ARIZONA	7,216
	57	MISSOURI	7,189
	58	CALIF.,SAN DIEGO	7,171
	59	MCMASTER	6,933
	60	YALE	6,884
	61	CHICAGO	6,876
	62	DARTMOUTH	6,822
	63	PURDUE	6,805
	64	COLUMBIA	6,613
	65	SOUTHERN ILLINOIS	6,429
	66	CASE WESTERN RESERVE	6,411
	67	OREGON	6,358
	68	PRINCETON	6,324
	69	TEMPLE	6,280
	70	FLORIDA STATE	6,175
	71	QUEEN'S	6,022
8	72	SOUTH CAROLINA	5,798
	73	EMORY	5,756
	74	GEORGETOWN	5,681
	75	GEORGIA	5,664
	76	SUNY-STONY BROOK	5,639
	77	NEBRASKA	5,563
	78	NEW MEXICO	5,485
	79	BROWN	5,402
	80	WESTERN ONTARIO	5,393
	81	WATERLOO	5,315
	82	MICHIGAN STATE	5,281
	83	DUKE	5,275
	84	ALABAMA	5,214
	85	IOWA STATE	5,210
	86	MANITOBA	5,163
	87	SYRACUSE	4,990
	88	WASHINGTON	4,986
	89	OKLAHOMA STATE	4,745
	90	NORTH CAROLINA STATE	4,652
	91	LOUISIANA STATE	4,464
	92	NORTH CAROLINA	4,289
	93	TENNESSEE	4,266
9	94	DELAWARE	3,933
	95	WASHINGTON STATE	3,755
	96	YORK	3,753
	97	SOUTHERN CALIFORNIA	3,665
	98	MIT	3,584
	99	GUELPH	3,450
	100	VPI & SU	3,355
	101	MARYLAND	3,334
	102	GEORGIA TECH	3,124
	103	RICE	2,998
	104	WAYNE STATE	2,679
	105	HAWAII	2,548
10	106	HOWARD	964

U/A - Unavailable

RANK ORDER TABLE 15: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 225 and over
2- 200-224
3- 175-199
4- 150-174
5- 125-149
6- 100-124
7- 75- 99
8- 50- 74
9- 25- 49

Gp	Rank	Institution	Value
1	1	HARVARD	327
2	2	CALIF.,LOS ANGELES	219
3	3	YALE	191
4	4	CALIF.,BERKELEY	172
	5	STANFORD	170
	6	CORNELL	160
	7	TORONTO	157
	8	COLUMBIA	156
5	9	ILLINOIS	137
	9	TEXAS	137
	11	MICHIGAN	133
	12	WISCONSIN	132
6	13	MINNESOTA	121
	14	SOUTHERN CALIFORNIA	119
	14	WASHINGTON	119
	16	NORTH CAROLINA	114
	16	OHIO STATE	114
	18	PENNSYLVANIA STATE	113
	19	INDIANA	112
	20	NORTHWESTERN	108
	20	PENNSYLVANIA	108
	22	NEW YORK	106
	23	PRINCETON	104
	24	BRITISH COLUMBIA	103
	25	FLORIDA	101
	26	RUTGERS	100
7	27	ARIZONA	97
	28	DUKE	95
	28	VIRGINIA	95
	30	SUNY-BUFFALO	90
	31	BRIGHAM YOUNG	88
	31	JOHNS HOPKINS	88
	33	KANSAS	87
	33	MIT	87
	33	PITTSBURGH	87
	36	ALBERTA	86
	36	ARIZONA STATE	86
	38	IOWA	85
	39	MARYLAND	83
	40	GEORGIA	80
	40	HOWARD	80
	42	MICHIGAN STATE	79
	43	CINCINNATI	78
	43	MCGILL	78
	45	BROWN	75
	45	CHICAGO	75
8	47	GEORGETOWN	74
	47	VANDERBILT	74
	49	TEMPLE	72
	50	CALIF.,SAN DIEGO	71
	51	CALIF.,DAVIS	70
	51	LAVAL	70
	51	MIAMI	70
	54	SYRACUSE	67
	54	TEXAS A&M	67
	56	CASE WESTERN RESERVE	66
	56	HAWAII	66
	56	KENTUCKY	66
	59	WASHINGTON U-ST. LOUIS	65
	60	BOSTON	64
	60	CONNECTICUT	64
	60	EMORY	64
	63	LOUISIANA STATE	61
	64	MISSOURI	60
	65	PURDUE	59
	65	SOUTH CAROLINA	59
	67	WAYNE STATE	58
	68	CALIF.,SANTA BARBARA	57
	68	ROCHESTER	57
	70	FLORIDA STATE	56
	70	MANITOBA	56
	70	MASSACHUSETTS	56
	70	SOUTHERN ILLINOIS	56
	70	TENNESSEE	56
	70	VPI & SU	56
	76	CALIF.,IRVINE	54
	76	DELAWARE	54
	76	WESTERN ONTARIO	54
	79	NEBRASKA	53
	80	SUNY-STONY BROOK	52
	81	ALABAMA	51
	82	OREGON	50
	82	TULANE	50
	82	YORK	50
9	85	UTAH	49
	86	OKLAHOMA	48
	87	COLORADO	47
	87	GEORGIA TECH	47
	89	NEW MEXICO	46
	89	SUNY-ALBANY	46
	91	IOWA STATE	45
	91	WASHINGTON STATE	45
	93	HOUSTON	43
	93	NORTH CAROLINA STATE	43
	93	WATERLOO	43
	96	COLORADO STATE	42
	97	DARTMOUTH	40
	97	KENT STATE	40
	97	OKLAHOMA STATE	40
	97	RICE	40
	101	NOTRE DAME	39
	101	QUEEN'S	39
	103	MCMASTER	38
	104	SASKATCHEWAN	36
	105	CALIF.,RIVERSIDE	34
	106	GUELPH	33

U/A - Unavailable

RANK ORDER TABLE 16: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over
2- 400-449
3- 350-399
4- 300-349
5- 250-299
6- 200-249
7- 150-199
8- 100-149
9- 50- 99
10- under 50

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	HARVARD	577		52	CINCINNATI	139
	2	TORONTO	463		53	TENNESSEE	134
					53	YORK	134
3	3	YALE	396		55	EMORY	132
	4	TEXAS	373		55	MICHIGAN STATE	132
	5	STANFORD	352		57	MISSOURI	131
					58	GEORGETOWN	128
4	6	COLUMBIA	317		59	MASSACHUSETTS	127
					59	SASKATCHEWAN	127
5	7	CALIF.,BERKELEY	296		61	HOWARD	126
	8	CALIF.,LOS ANGELES	293		62	KENTUCKY	122
	9	CORNELL	289		62	MIAMI	122
	10	ILLINOIS	288		62	NORTH CAROLINA STATE	122
	11	ALBERTA	278		65	KANSAS	121
	12	PENNSYLVANIA STATE	274		65	WASHINGTON U-ST. LOUIS	121
	13	MICHIGAN	273		67	SUNY-STONY BROOK	119
	14	BRITISH COLUMBIA	269		67	VANDERBILT	119
					69	TEMPLE	118
6	15	RUTGERS	240		70	LOUISIANA STATE	115
	16	WASHINGTON	228		70	SUNY-BUFFALO	115
	17	PRINCETON	223		72	NOTRE DAME	111
	18	INDIANA	218		72	SOUTH CAROLINA	111
	19	WISCONSIN	217		72	UTAH	111
	20	OHIO STATE	210		72	WAYNE STATE	111
	21	MCGILL	207		76	DELAWARE	110
	22	NORTH CAROLINA	202		76	WASHINGTON STATE	110
	23	WESTERN ONTARIO	201		78	NEBRASKA	109
					78	ROCHESTER	109
7	24	LAVAL	193		80	GUELPH	108
	24	VIRGINIA	193		81	IOWA STATE	107
	26	CALIF.,DAVIS	191		81	NEW MEXICO	107
	27	ARIZONA STATE	190		83	CALIF.,IRVINE	106
	28	CHICAGO	189		83	DARTMOUTH	106
	29	NEW YORK	188		85	VPI & SU	105
	30	GEORGIA	186		86	CALIF.,RIVERSIDE	104
	31	JOHNS HOPKINS	182		87	BROWN	103
	32	ARIZONA	179		87	IOWA	103
	33	DUKE	173		89	CONNECTICUT	102
	33	MINNESOTA	173		89	TULANE	102
	35	PITTSBURGH	170		91	COLORADO	100
	36	FLORIDA	169		91	HAWAII	100
	37	PENNSYLVANIA	167				
	38	CALIF.,SAN DIEGO	166	9	93	FLORIDA STATE	99
	39	QUEEN'S	160		94	SOUTHERN ILLINOIS	97
	40	MANITOBA	157		95	KENT STATE	93
	41	SOUTHERN CALIFORNIA	156		96	SUNY-ALBANY	89
	42	NORTHWESTERN	154		97	OREGON	87
	43	MIT	151		98	HOUSTON	83
					99	CASE WESTERN RESERVE	80
8	44	MARYLAND	149		100	OKLAHOMA	79
	44	PURDUE	149		101	ALABAMA	75
	44	TEXAS A&M	149		102	RICE	73
	47	BOSTON	146		103	COLORADO STATE	71
	48	SYRACUSE	145		104	OKLAHOMA STATE	69
	49	WATERLOO	141		105	GEORGIA TECH	50
	50	MCMASTER	140				
	51	CALIF.,SANTA BARBARA	139	10	106	BRIGHAM YOUNG	46

U/A - Unavailable

RANK ORDER TABLE 17: TOTAL STAFF

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over
2- 600-649
3- 550-599
4- 500-549
5- 450-499
6- 400-449
7- 350-399
8- 300-349
9- 250-299
10- 200-249
11- 150-199
12- 100-149

Gp	Rank	Institution	Value
1	1	HARVARD	1,030
	2	CALIF.,BERKELEY	756
	3	CALIF.,LOS ANGELES	730
	4	TORONTO	727
	5	YALE	679
2	6	COLUMBIA	624
	7	STANFORD	621
3	8	TEXAS	577
4	9	MICHIGAN	548
	10	ILLINOIS	547
	11	CORNELL	532
	12	INDIANA	521
5	13	WISCONSIN	494
	14	WASHINGTON	471
	15	RUTGERS	465
	16	PENNSYLVANIA STATE	460
	17	OHIO STATE	455
6	18	MINNESOTA	428
	19	BRITISH COLUMBIA	419
	20	NORTH CAROLINA	409
	21	FLORIDA	404
	22	ALBERTA	401
7	23	SOUTHERN CALIFORNIA	385
	24	GEORGIA	383
	25	PRINCETON	380
	26	PENNSYLVANIA	372
	27	JOHNS HOPKINS	369
	28	NEW YORK	367
	29	ARIZONA	366
	30	NORTHWESTERN	356
	31	ARIZONA STATE	351
8	32	VIRGINIA	341
	33	CHICAGO	336
	34	PITTSBURGH	332
	35	CALIF.,DAVIS	324
	35	MCGILL	324
	37	MARYLAND	321
	38	MICHIGAN STATE	320
	39	DUKE	319
	40	CALIF.,SAN DIEGO	316
	41	TEXAS A&M	311
	42	WESTERN ONTARIO	304
	43	BRIGHAM YOUNG	300
9	44	CINCINNATI	297
	45	KANSAS	292
	46	GEORGETOWN	285
	47	LOUISIANA STATE	279
	48	BOSTON	278
	49	SUNY-BUFFALO	277
	50	MIT	275
	51	LAVAL	270
	52	KENTUCKY	266
	52	TEMPLE	266
	54	PURDUE	265
	55	HOWARD	262
	56	IOWA	259
	57	VANDERBILT	256
	58	WAYNE STATE	255
	59	SYRACUSE	252
10	60	MISSOURI	249
	61	EMORY	248
	62	SOUTHERN ILLINOIS	246
	63	BROWN	243
	63	MIAMI	243
	65	YORK	241
	66	NEW MEXICO	240
	67	CALIF.,SANTA BARBARA	239
	68	MANITOBA	237
	69	FLORIDA STATE	236
	69	MASSACHUSETTS	236
	71	TENNESSEE	232
	71	UTAH	232
	73	WASHINGTON U-ST. LOUIS	228
	74	CONNECTICUT	225
	75	CALIF.,IRVINE	224
	75	NORTH CAROLINA STATE	224
	77	QUEEN'S	223
	78	ROCHESTER	222
	79	HAWAII	220
	80	SUNY-STONY BROOK	216
	81	OREGON	211
	82	DELAWARE	207
	82	WASHINGTON STATE	207
	84	NEBRASKA	206
	84	WATERLOO	206
	86	VPI & SU	205
	87	COLORADO	204
	87	IOWA STATE	204
11	89	OKLAHOMA	198
	89	SOUTH CAROLINA	198
	91	MCMASTER	193
	92	KENT STATE	183
	92	TULANE	183
	94	DARTMOUTH	182
	95	NOTRE DAME	180
	96	CALIF.,RIVERSIDE	179
	97	ALABAMA	176
	98	CASE WESTERN RESERVE	174
	98	SASKATCHEWAN	174
	98	SUNY-ALBANY	174
	101	HOUSTON	173
	102	OKLAHOMA STATE	164
	103	GUELPH	155
12	104	RICE	145
	105	COLORADO STATE	139
	106	GEORGIA TECH	112

U/A - Unavailable

ARL STATISTICS, 1986-87

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in *American National Standard for Library and Information Sciences and Related Publishing Practices - Library Statistics*. Z39.7-1983. (New York, American National Standards Institute, 1983.)

2. The questionnaire assumes a fiscal year ending June 30, 1987. If your fiscal year is different, please provide a footnote on p. 4 of the questionnaire.

3. All figures should be rounded to the nearest whole number.

4. If the appropriate answer is zero or none, use **0.** If an exact figure is unavailable, use **U/A.** If a question is not applicable to your library, use **N/A.**

5. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Integrated Postsecondary Education Data System (IPEDS) survey described a **branch campus** as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 4 of the questionnaire.

6. A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of a system, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.

7. **Questions 1-6. Collections.** Use the ANSI Z39.7-1983 definition for **volume** as follows:

> a physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, and made ready for use.

Include duplicates and bound volumes of periodicals. Exclude microforms, maps, nonprint materials, and uncataloged items. Exclude government document volumes unless they are cataloged, classified, and shelved as part of the general collection. If any of these items cannot be excluded, please provide an explanatory footnote on p. 4 of the questionnaire. For purposes of this questionnaire, unclassified bound serials that are arranged in alphabetical order are considered classified.

8. **Question 2.** Include only volumes cataloged, classified, and made ready for use.

9. **Question 6.** Report number of volumes purchased. Include all volumes for which an expenditure was made during 1985-86, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote on p. 4 of the questionnaire. **Note:** This question is concerned with volumes purchased rather than volumes received or cataloged. Question 15 requests the expenditure for the volumes counted here.

10. **Questions 7-9. Serials.** Include duplicate subscriptions and only those government document serials that are cataloged, classified, and shelved as part of the general collection; do not include government documents serials that are housed in a separate government documents collection. Exclude monographic and publishers' series. A **serial** is

> a publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.

11. **Question 10. Microforms.** Include number of reels of microfilm, number of microcards, and number of microprint and microfiche sheets. Exclude government document microforms.

12. **Questions 11-14. Personnel.** Report the number of staff in filled positions, or positions which are only temporarily vacant. Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote on p. 4 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers. Please give the number of hours in the work week on p. 4 of the questionnaire.

13. **Question 11.** Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

14. **Questions 15-26. Expenditures.** Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, gifts and endowments, and fees for service. Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.3602, the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1986 - June 1987.

15. **Question 15.** Include here expenditures for volumes reported on line 6.

16. **Question 16.** Exclude monographic and publishers' series.

17. **Question 17.** Include all materials except monographs and current serials, e.g. microforms, backfiles of serials, charts and maps, audiovisual materials, manuscripts, electronic media, etc.

18. **Question 18.** Include any other materials funds expenditures not included in questions 15-17, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote on p. 4 of the questionnaire.

19. **Question 20.** Include only contract expenditures. If all binding is done in-house, state this fact and give in-house expenditures in a footnote on p. 4 of the questionnaire; do not include personnel expenditures.

20. **Questions 21-24.** Exclude fringe benefits.

21. **Questions 23-24.** Report 100% of student wages. Include federal and local funds for work study students, regardless of budgetary source of funds.

22. **Question 25**. Exclude expenditures for buildings, maintenance, and fringe benefits.

23. **Questions 27-28**. Include both original materials and photocopies in lieu of originals.

24. **Questions 29-30. Ph.D. Degrees**. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not included in this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 4 of the questionnaire.

25. **Question 30**. For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties formerly enumerated in the form used by the U.S. Department of Education entitled, "Integrated Postsecondary Education Data System Survey, Postsecondary Completions," designated as ED (CS) Form G50-14P-C. Although the IPEDS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 4 of the questionnaire.

26. **Questions 31-34. Enrollment.** U.S. libraries should use the 1986-87 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment . . . 1986," designated as ED (CS) Form G50-14P-EF. The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1985 to ensure consistency and accuracy. **Note:** In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students.

27. **Question 35. Faculty**. Instructional faculty are defined as those members of the Instructional/Research staff who are employed on a full-time basis and whose major regular assignment is instruction, including those with released time for research. Please be sure number reported is equivalent to the number reported for 1985-86.

28. **Footnotes.** Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, a copy of your footnotes from the 1985-86 *ARL Statistics* is included in the questionnaire. (Please note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published *Statistics,* not to a line number on the questionnaire.)

29. After the questionnaire has been completed, please compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year. If an unusual change has occurred, please provide an explanatory footnote on p. 4 of the questionnaire.

30. Return one copy of each questionnaire to the ARL Office by **October 9, 1986**. If there are any questions about the procedure to be followed in completing these questionnaires, contact the ARL Office. Please be sure the library director has signed the questionnaire before it is returned to the ARL Office.

ASSOCIATION OF RESEARCH LIBRARIES

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

ARL STATISTICS QUESTIONNAIRE, 1986-87

If the appropriate answer is zero or none, use "0". If an exact figure is unavailable, use "U/A." If a question is not applicable, use "N/A."

Reporting Institution _____ **Date Returned to ARL** _____

Questionnaire Completed by (Name) _____

Position _____ **Phone** _____

Contact Person (if different) _____

Position _____ **Phone** _____

COLLECTIONS *(See instructions 7-11)*

1. **Volumes held June 30, 1986**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.
   Record figure reported last year or footnote adjusted figure on p. 4.) _____
2. **Volumes added during year – Gross**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.)
   (See instruction 8) _____
3. **Volumes withdrawn during year**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____
4. **Volumes added during year – Net** (Subtract line 3 from line 2) _____
5. **Volumes held June 30, 1987** (Add line 1 to line 4) _____
6. **Number of monographic volumes purchased**
   (Volumes for which expenditures are reported on line 15. Footnote if titles.)
   (See instruction 9) _____
7. **Number of current serials, including periodicals, purchased**
   (See instruction 10) _____
8. **Number of current serials, including periodicals, received but not purchased** (Exchanges, gifts, etc.) *(See instruction 10)* _____
9. **Total number of current serials received** (Add line 7 to line 8) _____
10. **Total microform units held June 30, 1987** *(See instruction 11)* _____

PERSONNEL *(See instructions 12-13)* (Round figures to nearest whole number.)

11. **Number of professional staff, FTE** *(See instruction 13)* _____
12. **Number of nonprofessional staff, FTE** _____
13. **Number of student assistants, FTE** _____
14. **Total FTE staff** (Add lines 11, 12, 13) _____

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.3602)
EXPENDITURES *(See instructions 14-22)*		
15. **Monographs** (Expenditures for volumes reported on line 6) *(See instruction 15)*		
16. **Current serials including periodicals** *(See instruction 16)*		
17. **Other library materials (e.g., microforms, a/v, etc.)** *(See instruction 17)*		
18. **Miscellaneous** (All materials fund expenditures not included above) *(See instruction 18)*		
19. **Total library materials** (Add lines 15, 16, 17, 18)		
20. **Contract binding** *(See instruction 19)*		
21. **Salaries and wages -- professional staff** *(See instruction 20)*		
22. **Salaries and wages -- nonprofessional staff** *(See instruction 20)*		
23. **Salaries and wages -- student assistants** *(See instruction 21)*		
24. **Total salaries and wages** *(See instruction 20)* (Add lines 21,22,23)		
25. **Other operating expenditures** *(See instruction 22)*		
26. **Total library expenditures** (Add lines 19, 20, 24, 25)		
INTERLIBRARY LOANS *(See instruction 23)*		
27. **Total items loaned**		
28. **Total items borrowed**		
PH.D. DEGREES *(See instructions 24-25)*		
29. **Number of Ph.D.s awarded**		
30. **Number of fields in which Ph.D.s can be awarded** *(See instruction 25)*		
ENROLLMENT -- FALL 1986 *(See instruction 26)*		
31. **Total full-time students** (Add line 8, columns 13 & 14, and line 14, colums 13 & 14)		
32. **Total part-time students** (Add line 22, columns 13 & 14, and line 28, columns 13 & 14)		
33. **Total full-time graduate students** (Line 14, columns 13 & 14)		
34. **Total part-time graduate students** (Line 28, columns 13 & 14)		
FACULTY *(See instruction 27)*		
35. **Number of full-time instructional faculty**		

FOOTNOTES FOR ARL STATISTICS, 1986-87

(Compare footnotes from previous year as they appear in the published *ARL Statistics* and revise as appropriate. For your convenience, a copy of your library's footnotes is given on p. 4 of this questionnaire.) *(See instruction 28)*

1. **Law Library statistics are included.**

   ____ Yes ____ No ____ We do not have a Law Library

2. **Medical Library statistics are included.**

   ____ Yes ____ No ____ We do not have a Medical Library

3. **Other main campus libraries not included:**

   _____

   _____

   _____

4. **Figures include reports from branch campus libraries.** *(See instruction 5)*

   ____ Yes ____ No ____ We have only one campus.

5. **If branch campus libraries are included, please specify which campuses.**

   _____

   _____

6. **If branch campus libraries are not included, please specify which campuses:**

   _____

   _____

7. **Basis of volume count is:** ____ Physical ____ Bibliographical

8. **Count of current serials** (Questions 7-9) **includes government document serials.**

   ____ Yes ____ No

9. **Fringe benefits are included in expenditures for salaries and wages** (Questions 21-24).

   ____ Yes ____ No

10. **Other comments:**

    _____

    _____

    _____

    _____

    _____

FOOTNOTES FOR ARL STATISTICS, 1985-86

11. **Footnotes as published in the 1985-86 *ARL Statistics*. Please indicate revisions, additions, and deletions as appropriate. Note: number in ( ) refers to the column in Library Data Tables in 1985-86 *ARL Statistics*.**

Please return completed questionnaire to the ARL Office by October 9, 1987.

Reporting Institution: _____

Library Director's Signature: _____

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2466

FOOTNOTES TO THE ARL STATISTICS, 1986-87

Institution	*Category from Main Tables*	*Notes*
ALABAMA		All figures are as of September 30, 1987.
	(17)	Includes Law Library and Map Library only; other libraries do not separate expenditures for audiovisual materials and microforms.
	(18)	Includes SOLINET ($146,705), memberships ($7,543), online searching ($42,125), and Health Sciences interlibrary loan ($500).
		1985-86 figure for instructional faculty represented head count not FTE.
		1985-86 figures for Ph.D. fields and number of degrees awarded included doctorates other than the Ph.D.
ALBERTA		All figures are as of March 31, 1987.
		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, and Map Library.
	(1)	Figure revised due to inventory of the Faculte Saint Jean Library in 1986.
	(9,10)	Figures do not include loans to Provincial government libraries, Extension library, Health Sciences Library, and Law Library extramural loans.
	(15,17)	Figures including outside funding would be (15) $1,423,600 (Can.); (17) $575,118 (Can.).
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures are University provided funding only.

Institution	*Category from Main Tables*	*Notes*
ALBERTA (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,040,840; (16) $3,195,568; (17) U/A; (18) U/A; (19) $4,236,408; (20) $136,508; (21) $3,309,142; (22) $6,054,769; (23) $581,000; (24) $9,944,911; (25) $1,712,247; (26) $16,030,074.
ARIZONA	(1)	Includes government documents received through 1978.
ARIZONA STATE		Includes Arizona State University West Campus.
BOSTON		Includes the Theology Library.
	(1)	1985-86 figure revised.
	(5-7)	Estimated figures.
BOSTON PUBLIC	(1)	Includes branch libraries (802,714) and general library (739,021). Excludes patents (8,500,000+), prints (700,780+), and manuscripts (1,000,000+).
	(24)	Figure published for 1985-86 Total Salaries and Wages was incorrect.
BRIGHAM YOUNG		Figures are as of August 31, 1987.
BRITISH COLUMBIA	(1-8,15-26)	Figures are as of March 31, 1987.
	(4,15-19)	Includes government publications.
	(8)	Microform holdings including government document microforms are 3,492,476.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $2,446,278; (16) $2,640,752; (17) U/A; (18) U/A; (19) $5,087,030; (20) $198,148; (21) $3,935,639; (22) $4,925,821; (23) $851,110; (24) $9,712,570; (25) $1,179,687; (26) $16,177,435.
BROWN		Includes John Carter Brown Library and Annmary Brown Library.

Institution	*Category from Main Tables*	*Notes*
BROWN UNIVERSITY (cont.)	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CALIF., BERKELEY	(17,18)	Included in Monographs Expenditures (15).
CALIF., DAVIS		Includes Harrison Western Research Center Library collection of 17,434 bound volumes and 107 non-document serials in Fair Oaks, California.
CALIF., IRVINE	(7)	Figures for current serials including government documents serials is 20,043.
	(8)	Microform holdings including government publications microforms are 1,414,604.
CALIF., LOS ANGELES	(1)	1985-86 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
	(5-7)	Includes cataloged government document serials.
	(11)	Professional staff includes the following position titles: Specialist, Principal Administrative Analyst, Senior Administrative Analyst, Administrative Analyst, Programmer, Senior Accountant, MSO I-IV, Principal Editor, Senior Editor, and Library Assistant V.
CALIF., RIVERSIDE	(14)	Includes 1 FTE professional, 3 FTE nonprofessionals, and 3 FTE student assistants for project.
	(19)	Includes donations and budgeted funds.
	(23)	Includes $32,373 in federal work study funds.
	(25)	Includes grants, opportunity funds, and budgeted funds.
CALIF., SAN DIEGO	(7)	Includes monographic and publishers' series.
	(8)	Excludes government documents microforms only if housed in separate collection.

Institution	*Category from Main Tables*	*Notes*
CALIF., SAN DIEGO (cont.)	(14)	Includes 14.17 FTE hired for cost recovery operations, special projects, and grants.
	(17)	Figure is considerably less than 1985-86 figure because in transition to automated system, non-serial microforms that were ordered manually were not tracked.
	(18)	Includes machine-readable data files ($5,502) and data services ($29,135).
	(25)	Includes offsetting internal recharge income.
		Full-time faculty figure estimated.
CALIF., SANTA BARBARA	(7)	1986-87 figure excludes government documents for the first time.
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION		Includes 15 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
		All figures are as of March 31, 1987.
	(24)	Includes fringe benefits.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,881,308; (16) $5,574,972; (17) $150,924; (18) $786,467; (19) $8,393,671; (20) $135,940; (21) $3,684,801; (22) $3,700,738; (23) 59,492; (24) $7,445,031; (25) $8,043,289; (26) $24,017,931.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
	(3)	Includes withdrawal of 13,476 volumes from the Library Science Library.
	(11)	Includes 1 FTE paid through grant funds.
	(12)	Includes 1 FTE paid through grant funds and 1 FTE on special project.
CENTER FOR RESEARCH LIBRARIES	(5-7)	Excludes state documents.

Institution	*Category from Main Tables*	*Notes*
CENTER FOR RESEARCH LIBRARIES (cont.)	(8)	Excludes uncataloged government documents. Figure includes other material that is uncataloged but arranged on shelves for use.
	(4,15,16)	Separate records for monograph and serial purchases are not kept.
CHICAGO	(5-7)	Includes cataloged government document serials.
	(7)	Figure reflects more accurate counting procedures than used in the previous years.
	(8)	Excludes unrecorded government documents previously included.
	(10)	Does not include 13,608 borrowed from the Center for Research Libraries.
	(16)	Includes monographic series.
	(22)	Includes 36 FTE on special projects and cost recovery.
CINCINNATI	(8)	Decrease in units held due to revised unit count.
	(15)	Includes Other Library Materials (17).
	(16)	Includes microforms.
	(26)	Includes $527,893 for development and installation of automated library system.
		Ph.D. counts include doctoral degrees in all fields and all doctoral degrees awarded.
COLORADO	(7)	Current serials holdings including government document serials are 23,044.
	(8)	Microform holdings including government document microforms are 3,347,169.
	(12)	Includes 1 FTE paid from grant funds and 4 FTE paid from auxiliary funds.
	(13)	Includes 24 FTE paid from work study funds.

Institution	*Category from Main Table*	*Notes*
COLORADO (cont.)	(18)	Includes bibliographic utility, literature searching, and postage expenditures.
	(23)	Includes $154,706 in work study funds.
COLORADO STATE	(25)	Does not include $56,422 for book storage facility.
COLUMBIA	(7)	Number of serials recounted this year.
	(11-14)	Includes 18 FTE professional, 25 FTE non-professional, and 12 FTE student assistants on special funding.
CONNECTICUT		Includes Hartford Regional Library.
	(17,18)	Included in Monographs Expenditures (15).
CORNELL		Includes Geneva Experiment Station.
	(1)	1985-86 figure revised.
	(15-18)	Unable to differentiate expenditure categories.
DARTMOUTH	(11-14)	Includes 1 FTE professional, 7 FTE non-professional, and 1 FTE student assistant paid from grant funds.
	(17)	Includes serial microforms ($94,487), serial audiovisual ($9,005), and serial machine-readable data files ($14,000).
	(18)	Included in Other Library Materials (17).
DELAWARE		Figures include Marine Studies Library at the University of Delaware Marine Studies Complex in Lewes, Delaware.
	(11-14,21-24)	Figures do not include professional and nonprofessional staff in Management Information Services assigned to the library.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Does not include major outlay for construction, furnishings, and equipment.

Institution	*Category from Main Table*	*Notes*
DUKE	(4)	Perkins (main) Library reports number of titles, not volumes.
	(8)	Counts based on physical microform pieces. Includes Law Library government documents.
	(11)	Includes 2 FTE on special projects and grants.
	(12)	Includes 1 FTE on term appointment.
EMORY	(1)	Includes 271,343 government documents, cataloged and housed separately.
	(7)	Includes 1,975 government document serials, cataloged and housed separately.
	(11-26)	Figures are for fiscal year ending August 31, 1987.
	(14)	Includes 6 FTE cost recovery positions and 9.75 FTE paid from special project and grant funds.
	(18)	Includes database searches ($57,508), and bibliographic utilities ($38,940).
		Number of full-time instructional faculty as of October 1, 1987.
FLORIDA	(25,26)	Does note include consultant fees and special projects costs totaling $57,334.
		Full-time and part-time graduate student figures include law and medical students.
FLORIDA STATE		Excludes Development Research School; includes branch campus in Panama City (holdings and materials expenditures only).
	(15)	Includes microforms, audiovisual materials, etc.
	(17,18)	Figures available for law library only.
GEORGETOWN	(1)	1985-86 figure revised.
	(5-7)	Includes government documents if cataloged and not part of the Depository.

Institution	*Category from Main Table*	*Notes*
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
	(1,2)	Includes cataloged government documents, some of which are shelved together in the Main and Science Libraries.
	(7)	Includes some monographic series received on standing order
GEORGIA TECH	(1-7)	Includes government documents that are cataloged, classified, and housed separately.
	(26)	Includes $158,167 in research, endowment, and gift funds.
GUELPH		Figures are as of April 30, 1987.
	(1)	Includes cataloged government documents.
	(25)	Increase over 1985-86 reflects special revenue.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $632,781; (16) $1,258,284; (17) $316,265; (18) U/A; (19) $2,207,330; (20) $87,766; (21) $1,467,599; (22) $2,017,560, (23) $137,546; (24) $3,622,705; (25) $186,105; (26) $6,103,906.
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(1)	1985-86 figure revised.
	(8)	Includes some government documents.
	(17)	In previous years, most microform expenditures were included in figures for serials and monographs.

Institution	*Category from Main Table*	*Notes*
HARVARD (cont.)	(26)	Separate figures for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($3,867,538), building and maintenance ($2,191,232) charged to library budget. Total reported expenses including these items: $40,851,510. Cost recovery items ($2,801,762) are included this year.
		Number of full-time instructional faculty excludes Medical School, School of Public Health, and Dental School.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(5,6)	Estimated figures.
	(18)	Included in Monographs Expenditures (15).
HOUSTON		All figures are as of August 31, 1987.
HOWARD	(18)	Includes bibliographic utilities ($36,550), and publications memberships ($450).
ILLINOIS	(7)	Estimated figure.
INDIANA	(15)	Figure lower than 1985-86 because of increases in expenditures for serials (line 16) and expenditures for manuscripts are included in Other Library Materials Expenditures (17) this year.
IOWA	(5,7)	Includes only those government documents received on paid subscriptions. Excludes monographic series for the first time this year.
	(11-14)	Includes 7 FTE on special retrospective conversion project.
	(16)	Expenditures for monographic series not available.

Institution	*Category from Main Table*	*Notes*
IOWA (cont.)	(17)	Figure available for Law Library only ($98,426). Expenditures for other libraries are included in Monographs Expenditures(15) and Serials Expenditures (16).
	(18)	Automation expenditures.
	(21)	Excludes salary for .5 FTE Associate Dean for Research in Law.
	(25)	Includes library expenditures for automation for the first time this year.
	(26)	Includes $46,627 in gifts, $98,724 in federal grant funds.
IOWA STATE	(5-7)	Includes government document serials that are cataloged, classified, and shelved as part of the collection.
	(8)	Includes government publications microfilm.
JOHNS HOPKINS		Includes Peabody Conservatory Library; Welch Medical Library; School of Hygiene and Public Health Library; Applied Physics Laboratory Library; and School of Advanced International Studies in Washington, DC and Bologna, Italy; the Center for Italian Studies in Florence, Italy; the Montgomery County Center in Rockville, MD; and the School of Continuing Studies' Columbia Center.
	(1)	1985-86 figure revised.
	(18)	Includes literature searching and computer-assisted instruction.
		Graduate students not included in full-time student enrollment figures.
KANSAS		Includes School of Medicine in Kansas City.
	(1)	1985-86 figure revised.
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 52 fields at Lawrence campus and 11 at Medical Center in Kansas City.

Institution	*Category from Main Table*	*Notes*
KENT STATE	(5)	Includes continuations.
	(6)	Estimated figure.
	(7)	Excludes 4,750 government serials.
	(8)	Excludes government documents.
	(11-14,17,19,21-26)	Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproduction.
	(25)	Includes fringe benefits and special grants for equipment.
KENTUCKY	(7)	Excludes government documents.
	(11,12)	Includes 4 FTE professionals and 2 FTE nonprofessionals paid from grant funds.
	(13)	Includes 20 FTE students paid through work-study funds and other non-library units.
	(26)	Includes $217,521 in grants and gifts, $193,026 in income, $451,602 for installation of an automated system, $116,148 for a special project, and $210,263 from work-study and other non-library units.
LAVAL	(15)	Includes $12,308 (Can.) in grant funds.
	(17)	Includes $237,834 (Can.) for the conversion on microfilm of part of the Scientific Library's periodical collections.
	(18)	Expenditures for online literature searching.
	(20)	Includes only special contracts and binding furniture. Most binding is done in-house. Salaries involved are $161,264 (Can.).
	(24)	Fringe benefits, which are not included, total Can. $1,166,001 (U.S. $1,857,227).

Institution	*Category from Main Table*	*Notes*
LAVAL (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $955,640; (16) $1,698,991; (17) $269,618; (18) $134,457; (19) $3,058,706; (20) $51,934; (21) $3,154,309; (22) $4,176,746; (23) $144,081; (24) $7,475,136; (25) $930,511; (26) $11,516,287.
LIBRARY OF CONGRESS	(5-7)	Estimated number of titles.
LINDA HALL		All figures are as of December 31, 1986.
	(8)	Excludes 918,400 technical reports on microform.
	(18)	Includes $16,100 in memberships, $37,000 in bibliographic utilities and online searching.
LOUISIANA STATE		Includes Law Library and Veterinary Medicine Library.
	(1,3)	Includes bound government documents.
	(17)	Expenditures for microforms for main library unavailable.
	(18)	Includes SOLINET ($52,577), online searching ($45,673), security ($36,475), computer costs ($20,219), NOTIS maintenance ($10,100), and RLIN ($652).
	(23)	Does not include $356,508 in work-study funds; includes $212,450 in Graduate Assistant wages.
McGILL		All figures are as of May 31, 1987.
	(1)	1985-86 figure revised.
	(17)	Includes $723,537 (Can.) in special funds and $54,000 (Can.) in government grants toward specific collections.
	(18)	Includes $44,977 (Can.) for memberships; $23,000 (Can.) for Tattletape; $574,191 (Can.) for bibliographic searching and utilities.
	(22)	Includes $182,906 (Can.) for contracted security services.

Institution	*Category from Main Table*	*Notes*
McGILL (cont.)	(25)	Includes $361,260 (Can.) for retrospective conversion; $70,790 (Can.) for capital equipment; $936,187 (Can.) for automation hardware and software installations.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,322,742; (16) $1,755,856; (17) $777,537; (18) $642,168; (19) $4,498,303; (20) $172,800; (21) $3,317,952; (22) $4,811,177; (23) $503,353; (24) $8,632,482; (25) $1,635,301; (26) $14,938,886.
McMASTER		All figures are as of April 30, 1987.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,571,099; (16) $1,963,489; (17) U/A; (18) $7,366; (19) $3,541,954; (20) $92,223; (21) $1,492,399; (22) $2,776,957; (23) $350,597; (24) $4,619,953; (25) $568,841; (26) $8,822,971.
MANITOBA		All figures are as of March 31, 1987.
	(11,12)	Includes 1 FTE professional paid from medical grant and 1.3 FTE nonprofessionals paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $590,225; (16) $1,738,384; (17) U/A; (18) U/A; (19) $2,328,609; (20) $107,102; (21) $2,218,047; (22) $2,846,622; (23) $394,515; (24) $5,459,184; (25) $594,821; (26) $8,489,716.
MARYLAND		College of Library and Information Services data are included for collections and expenditures (except salaries and wages), but not for personnel.
	(13,24)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.

Institution	*Category from Main Table*	*Notes*
MARYLAND (cont.)		Ph.D. count includes all doctoral fields.
MASSACHUSETTS	(7)	Includes 310 serial titles received as U.S. depository items. These titles are fully cataloged, classified, and intershelved in the main and branch collections.
	(12)	Includes 6 temporary staff for retrospective conversion, and 2 trust-funded staff.
	(23)	Does not include $99,997 Federal Work Study contribution.
		Ph.D.'s awarded excludes 98 Ed.D. degrees.
MIT	(11,12)	Includes 6.2 FTE professionals and 6 FTE nonprofessionals paid through grant funds.
	(18)	Includes $110,396 for bibliographic utilities; $80,953 for literature searching.
	(26)	Includes $227,963 in grant funds.
MIAMI	(7)	Government documents excluded for the first time this year.
	(21)	Excludes director's salary.
MICHIGAN		Excludes Dearborn Campus Library, and the University of Michigan, Flint Library.
	(1)	Includes microforms in the Transportation Research Institute.
	(16)	Includes microform serials.
	(23)	Transportation Research Institute personnel budget is covered by parent institution except for $7,862.
MICHIGAN STATE	(1)	Figure for 1985-86 revised. Government documents excluded for the first time in 1986-87.
	(5-7)	Government documents excluded.
	(8)	Government documents excluded for the first time.

Institution	*Category from Main Table*	*Notes*
MICHIGAN STATE (cont.)		
	(14)	Includes 1.5 FTE paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
	(18)	Included in Other Operating Expenditures (25).
MINNESOTA	(1)	1985-86 figure revised.
	(18)	Includes CRL dues ($27,513); South American Microfilming Project ($550); PL480 ($15,661).
	(25)	Includes $1,527,548 purchase of hard- and software for automated system.
MISSOURI	(5,7)	Includes law monographic series.
	(18)	Includes $16,000 paid to OCLC by Law Library.
	(21)	Includes 45% of $223,000 for UM-Wide Library Systems Office for online catalog.
	(25)	Includes 45% of $336,000 for UM-Wide Library Systems Office for online catalog.
NATIONAL AGRICULTURAL LIBRARY		U.S.D.A. field libraries are not included.
		Figures are as of September 30, 1987.
	(16)	Includes Other Library Materials (17) and Miscellaneous Materials Expenditures (18).
	(21-24)	Includes fringe benefits.
NATIONAL LIBRARY OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1987.
	(4)	In addition to the number of monographic volumes purchased, two copies of documents published in Canada are received on legal deposit.

Institution	*Category from Main Table*	*Notes*
NATIONAL LIBRARY OF CANADA (cont.)	(6)	Figure also includes the number of serials received on legal deposit.
	(11-14)	Authorized person-years.
	(15,16)	Canadian monographs and serials are received on legal deposit.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $568,525; (16) $482,888; (17) $1,490,204; (18) $46,071; (19) $2,587,688; (20) $21,765; (21) $7,582,807; (22) $10,785,807; (23) $379,643; (24) $18,747,735; (25) $12,280,068; (26) $33,637,256.
NATIONAL LIBRARY OF MEDICINE	(11-26)	Statistics reflect the Library Operations component of the Library: Public Services, Technical Services, Bibliographic Services, and History of Medicine Divisions, as well as the Medical Subject Headings staff, the staff of the Regional Medical Library program, and the Office of the Associate Director for Library Operations. Excluded this year, although previously reported, are the Library's Office of Computer and Communications Systems and the Specialized Information Services Division.
NEBRASKA	(4-6)	Does not include figures for law library, which are not available.
	(7)	Includes cataloged government documents.
	(16)	Includes monographic and publishers' series for Law Library.
	(18)	Includes Law Library figures only.
NEWBERRY LIBRARY	(7)	Estimated figure.
	(20)	Figure reflects costs for in-house binding.
	(25)	Includes buildings, maintenance, and Division of Research and Education.

Institution	*Category from Main Table*	*Notes*
NEWBERRY LIBRARY (cont.)	(24,25)	Includes building operations costs.
NEW MEXICO		Excludes Law and Medical Library data included in 1985-86.
	(1-3)	Includes some non-print volumes.
	(7,8)	Excludes government documents.
		Law and Medical Faculty included in full time instructional faculty.
NEW YORK		All figures as of August 31, 1987.
	(1)	Corrected from previous years.
	(4)	Excludes law and medical libraries.
		Number of full-time instructional faculty previously excluded Medical School Faculty. Faculty excluding Medical is 1,186.
NEW YORK PUBLIC LIBRARY		Figures for 1986-87 not yet available; all figures reported are for 1985-86.
	(1)	1984-85 figure revised.
	(7)	Includes current and irregular serials and periodicals. No separate count kept of current serial titles.
	(24)	Does not include Central Administration and Development Office, @ $5.5 million.
NEW YORK STATE LIBRARY		All figures as of March 31, 1987.
	(1)	Includes cataloged government documents.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
NORTH CAROLINA		Includes Institute of Marine Sciences Library.

Institution	*Category from Main Table*	*Notes*
NORTH CAROLINA (cont.)	(11,12)	Includes 3 FTE professionals and 1.5 FTE nonprofessionals on special grant funds. Does not include 7.5 FTE paid from funds contributed by Duke and North Carolina State Universities for support of the Triangle Research Libraries Network.
	(26)	Includes $1,910,588 in grants, trust, and other special funds. Does not include $246,145 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke and North Carolina State Universities.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	(11-14)	Include 1 FTE professional and 2 FTE nonprofessionals on Title II-C grant.
	(18)	Includes bibliographic utilities ($123,355), memberships ($30,909), and other ($18,783).
NORTHWESTERN		Includes Dental Library.
		All figures are as of August 31, 1987.
	(4)	Does not include Law and Medical Libraries.
	(7)	Includes cataloged government documents not reported in previous years.
	(12)	Includes 1.28 FTE nonprofessionals on special grants and projects.
	(18)	Does not include Law and Medical Libraries. Includes database searching and bibliographic utilities charges.
NOTRE DAME	(6)	No record kept of gift subscriptions.
OHIO STATE		Includes University Archives.
	(5-7)	Includes cataloged government documents.
	(25)	Includes expenditures attributed in 1983-84 and earlier years to the University computer center.

Institution	*Category from Main Table*	*Notes*
OKLAHOMA	(1)	1985-86 figure revised.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee. Excludes Veterinary Medicine Library included in previous years.
	(12)	Includes 15 FTE temporary positions to assist in the implementation of the Library's automated system.
	(21-24)	Fringe benefits included.
OREGON	(4)	Reported figure refers to titles.
	(7)	Excludes duplicate subscriptions.
	(18)	Includes bibliographic utilities, LEXIS/WESTLAW searching, shipping charges, and miscellaneous.
PENNSYLVANIA	(8)	Excludes government document microforms for the first time this year.
	(11-14)	Includes 2 professionals and 3 nonprofessionals paid by grant.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
		Number of instructional faculty includes 1,808 permanent and 2,044 non-permanent full-time faculty.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuykill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College, King of Prussia Center for Graduate Studies, and Capital College at Middletown, PA.
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensberg, Bradford, and Titusville.

Institution	*Category from Main Table*	*Notes*
PITTSBURGH (cont.)	(11,12)	Includes 5.5 FTE professionals and 3 FTE nonprofessionals paid from grant funds.
	(18)	Includes $8,398 from ILL payments.
	(25)	Includes $554,163 for computer hardware and software, and $789,761 for renovation and wiring of libraries for automation.
		Ph.D. and enrollment figures (except full-time students) do not apply to School of Law. Figures for School of Law and School of Medicine include first professional students.
PRINCETON	(24)	Figures prior to 1985-86 included fringe benefits.
PURDUE	(11,12)	Wide difference between 1985-86 and 1986-87 figures is the result of correcting the classification of staff for reporting purposes.
QUEEN'S		Figures are as of April 30, 1987.
	(16)	Includes microforms.
	(17)	Includes audiovisual material only.
	(21)	Does not include Chief Law Librarian.
	(25)	Includes funds from cost recovery $179,623 (Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,144,941; (16) $1,905,949; (17) $9,619; (18) $161,099; (19) $3,221,608; (20) $120,024; (21) U/A; (22) U/A; (23) $216,776; (24) $4,623.053; (25) $420,422; (26) $8,385,107.
RICE	(9)	Includes interlibrary loans to corporate libraries.
	(18)	Includes bibliographic utilities ($51,851), database searching ($42,474), security ($10,000),and memberships ($13,253).
	(19,25,26)	Includes all sources of funding.

Institution	*Category from Main Table*	*Notes*
RICE (cont.)	(24)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.
		Number of full-time instructional faculty includes FTE adjunct professors.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(4,6,18)	Excludes Sibley Music Library.
	(5,7)	Includes purchased government document serials.
	(8)	Excludes government documents.
	(15)	Includes microform series and backfiles of periodicals.
	(16)	Includes monographic and publishers' series.
	(17)	Includes Sibley Music Library only.
RUTGERS		Figures include services to the basic medical sciences component of a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	(19,22)	Excludes cost recovery positions and staff hired for special projects and grants.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Figures are as of April 30, 1987.
	(1)	1985-86 figure revised.
	(17)	Included in Monographs Expenditures (15).
	(18)	Included in Other Operating Expenditures (25).

Institution	*Category from Main Table*	*Notes*
SASKATCHEWAN (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $846,942; (16) $2,059,586; (17) U/A; (18) U/A; (19) $2,906,528; (20) $100,304; (21) $1,316,071; (22) $2,700,512; (23) $194,849; (24) $4,211,432; (25) $425,580; (26) $7,643,844. Figures for Total FTE Part-time Students and Total FTE Part-time Graduate Students based on registrations.
SMITHSONIAN		Includes Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery. All figures are as of September 30, 1987.
	(1)	In previous years, basis of volume count was bibliographical.
	(9)	Interlibrary loan figures are reduced because one major branch was closed for moving to a new location during three-fourths of the year, and a second major branch operated at reduced hours for several months due to renovation.
	(12)	Includes 8 temporary FTE hired for 3 projects.
	(16)	Includes $8,000 special purpose and $20,000 grant money for specific purchases.
	(17)	Includes: conservation ($18,500); database rental ($55,000); document delivery ($25,000); and interlibrary loan ($7,000).
	(18)	Includes: Smithsonian Institution Libraries Bibliographic Information Systems ($125,000); contract cataloging ($257,000); retrospective conversion ($120,000); and in-house cataloging ($123,000).

Institution	*Category from Main Table*	*Notes*
SOUTH CAROLINA	(11)	Includes 1 FTE paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schoenberg Institute Library, and the Occupational Therapy/Physical Therapy and Nursing Collection. Does not include the Safety and Systems Management Library.
	(18)	Includes $155,043 for RLG membership and $89,289 for online searching.
		Figure for Ph.D.'s awarded includes doctoral candidates only.
		Ph.D. fields reported incorrectly in previous years.
		Full-time faculty figure excludes medical faculty.
SOUTHERN ILLINOIS		Excludes School of Medicine Library (Springfield), which is not administratively part of Library Affairs.
	(1)	1985-86 figure revised.
	(8)	Excludes government documents microforms for the first time.
STANFORD		Figures include Hopkins Marine Station Library.
	(14)	Includes 21 FTE paid from grant and contract funds.
	(15-26)	Figures are as of August 31. 1987.
	(26)	Includes $1,034,587 in grant and contract funds. Excludes $490,262 outside funding for purchase of Taube-Baron Collection.
SUNY, ALBANY		Includes the Graduate Library of Public Affairs and Policy (formerly Hawley Library) on East campus.

Institution	*Category from Main Table*	*Notes*
SUNY, ALBANY (cont.)	(4,5,7,26)	Figures are as of March 31, 1987.
	(8)	Excludes 1,770,005 government document microforms.
	(11)	Includes 39.7 FTE academics and 6 FTE non-teaching professionals with second level administrative or supervisory responsibilities.
	(12)	Includes clerical support staff and professional faculty not included in Professional Staff (11).
	(13)	Includes Federal work study.
	(11-14)	Includes 1 FTE professional, 1 FTE nonprofessional, and 4 FTE student assistants paid from grant funds.
	(18)	Includes: ILL photocopying ($1,887); memberships ($92,352); bibliographic utilities ($131,610); and computer-based reference service ($20,161).
	(23)	Excludes Federal Work Study allocations.
	(24)	Includes $60,566 in grant funds.
	(25)	Includes $20,801 in grant funds and $148,583 from revenue accounts.
SUNY, BUFFALO		Figures are as of March 31, 1987.
	(5)	Includes monographic series.
	(11-14)	Includes 4 FTE professionals, 3 FTE nonprofessionals, and 8 FTE student assistants on special projects grants.
	(16)	Includes expenditures for monographic series.
	(18)	Includes memberships ($51,500) and bibliographic utilities and literature searching ($91,770).
	(23)	Excludes Federal work study expenditures.

Institution	*Category from Main Table*	*Notes*
SUNY, BUFFALO (cont.)		Ph.D.'s awarded are as of June 30, 1987.
SUNY, STONY BROOK		Figures are as of March 31, 1987.
	(8)	Includes government documents.
	(15)	Includes microforms, maps, and audiovisual materials for main library.
	(17)	Includes microforms and audiovisual materials from Health Sciences Library ($707), periodical backfiles ($58,580), reprints of periodical articles ($1,860), and some newspapers on microfilm ($8,437).
	(18)	Includes OCLC, RLIN, and RLG ($210,893); literature searching ($17,669), and memberships ($9,435).
SYRACUSE		Excludes Utica College.
	(7)	The University Library and the Law Library undertook a serials cancellation project.
	(11)	Includes 3.5 FTE in Academic Computing Center.
	(18)	Figure included in Other Library Materials (17).
	(24)	Includes $124,250 for Academic Computing Center staff.
	(25)	Includes Academic Computing Center computer rentals, collection insurance, CRL dues, as well as regular operating expenditures.
		Ph.D.'s awarded include all doctoral degrees.
TEMPLE		Includes Ambler, Tyler School of Art, and Temple University City Center Campuses. Excludes Journalism; Health, Physical Education, Recreation, and Dance Libraries; and other departmental collections.
TENNESSEE	(6)	Excludes classified documents.
TEXAS		Figures are as of August 31, 1987.

Institution	*Category from Main Table*	*Notes*
TEXAS (cont.)		Includes the General Libraries, Law Library, and the Humanities Research Center.
	(5)	Figures unavailable for Law Library; figures for the General Libraries and the Humanities Research Center are 26,232 and 565 respectively.
	(6)	Figures unavailable for Law Library and Humanities Research Center; figure for General Libraries is 39,906.
	(14)	Includes 7.75 FTE staff hired on grant and/or recovery funds.
	(17,18)	Included in Monographs Expenditures (15).
	(19)	Includes expenditures of $3,723,371 by the General Libraries, $258,329 by the Humanities Research Center, and $735,162 by the Law Library.
	(23)	Includes Title II-C and Federal work study funds.
	(25)	Includes $845,764 for automated catalog development for the General Libraries; does not include additional funds expended for computer upgrade in support of project.
		Ph.D.'s awarded includes D.Ed. degrees.
TEXAS A&M		Medical Library is a separate academic entity; data from its two branch libraries are not included.
		All figures are as of August 31, 1987.
	(4)	Figure reported is titles not volumes.
TORONTO		All figures are as of April 30, 1987.
		Includes only the libraries of the university within the President's budget; excludes libraries of the federated and affiliated institutions.

Institution	*Category from Main Table*	*Notes*
TORONTO (cont.)	(1)	1985-86 figure revised.
	(1,4,5,7)	Includes monographic series.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(25)	Figure reflects one-time expenditure for new automated system.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $3,402,252; (16) $3,537,581; (17) U/A: (18) U/A; (19) $6,939,833; (20) $261,309; (21) $6,206,152; (22) $9,612,877; (23) $1,564,827; (24) $17,383,857; (25) $3,128,022; (26) $27,713,021.
TULANE		Includes Delta Regional Primate Research Center in Covington, Louisiana.
	(4)	Figure reported is a combination of titles and volumes, and excludes the Law Library.
	(18)	Includes SOLINET charges.
UTAH	(25)	Includes one-time funding of $753,308 towards new integrated system.
VANDERBILT	(1)	Does not include 14,000 hours of videotape.
	(9,10)	Includes Law Library.
	(17)	Included in Serials Expenditures (16).
	(18)	Includes online searching and bibliographic utilities only.
		Fulltime instructional faculty figure includes clinical faculty.
VIRGINIA	(16)	Includes expenditures for monographic series in Health Sciences Library.
	(18)	Includes expenditures for literature searching in Law Library.

Institution	*Category from Main Table*	*Notes*
VIRGINIA POLYTECHNIC & STATE UNIVERSITY		University libraries were reorganized as of August 4, 1986. Due to changes in organizational structure, staff reassignments, and physical reorganization, data collected from July 1, 1986 through June 1, 1987 are not completely comparable to data collected in previous years.
		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.
	(1)	1985-86 figure revised.
	(5-7)	Estimated figures.
	(16)	Includes prepayments of $54,306 for 4,687 titles.
	(18)	Includes bibliographic utilities ($97,500), literature searching ($30,076), memberships ($6,295), and binding supplies (including security strips) and contractual services ($34,520).
		Ph.D.'s awarded include Ed.D. degrees.
		Full-time graduate student figure includes professional school (veterinary medicine) students.
		Full-time instructional faculty figure represents major change in the University's interpretation of the ARL/AAUP/HEGIS/IPEDS definition.
WASHINGTON	(4)	Excludes Law Library.
	(11-14)	Includes 2 FTE professionals, 4.5 FTE nonprofessionals, 14 FTE students paid from cost recovery operations.
	(25)	Includes one-time allocation for online system.
WASHINGTON STATE	(5,6)	Estimated figure.

Institution	*Category from Main Table*	*Notes*
WASHINGTON STATE (cont.)	(8)	Includes government documents.
	(11-14)	Includes staff for Instructional Media Services. Includes .1 FTE professional and .5 FTE nonprofessional paid from grant funds and .2 FTE professional, 4.53 FTE nonprofessionals, and 3.71 FTE student assistants paid from cost recovery programs.
	(15,16)	Includes microforms.
	(17)	Figures for Instructional Media Service purchase of film and videos only.
WASHINGTON, ST. LOUIS	(4)	For Law Library, figure indicates number of titles added.
	(5)	Includes 3,101 current serials held in Law, Medical, and Dentistry libraries for which separate counts of purchased and not purchased are unavailable.
	(7)	Includes Law and Medical Library government documents.
	(8)	Includes government documents for Law Library; no separate count available.
	(17)	Separate costs not available for Central library system.
	(21-24)	Includes fringe benefits for all libraries except the Central Library system and the Social Work Library.
	(25)	Includes on campus computing facilities and other automation costs, other services (i.e. postage, leases) and equipment. Include Social Security and annuity for Medical, Law, and Business libraries.
WATERLOO		Figures include the Engineering, Mathematics and Science Library, and the University Map and Design Library. Figures are as of April 30, 1987.
	(1)	Includes cataloged government documents

Institution	*Category from Main Table*	*Notes*
WATERLOO (cont.)	(18)	Included in Monographs Expenditures (15), Serials Expenditures (16), and Other Library Materials Expenditures (17).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $941,598; (16) $1,665,800; (17) $36,846; (18) U/A; (19) $2,644,244; (20) $78,202; (21) $1,752,377; (22) $2,708,631; (23) $257,051; (24) $4,718,059; (25) $619,756; (26) $8,060,261.
WAYNE STATE		All figures are as of September 30, 1987.
		Includes Ruether Archives of Labor and History and College of Pharmacy and Allied Health Professions.
	(18)	Included in Other Library Materials (17).
	(25)	Includes $250,000 one-time allocation for acquisitions, plus $450,000 one-time allocation for retrospective conversion.
WESTERN ONTARIO		Figures are as of April 30, 1987.
		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, and departmental libraries.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,079,715; (16) $2,488,645; (17) U/A; (18) U/A; (19) $3,568,360; (20) $162,458; (21) $1,989,528; (22) $3,375,772; (23) $678,779; (24) $6,044,079; (25) $513,341; (26) $10,288,238.
WISCONSIN	(1)	Includes maps. 1985-86 figure revised due to the addition of the Primate Library.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(1-6)	Excludes typewritten, handwritten, and mimeographed works (treated as manuscript materials).

Institution	*Category from Main Table*	*Notes*
YALE (cont.)	(5,6)	Estimated figures.(5-7)Excludes newspapers.
		Number of full-time instructional faculty excludes Medical School.
YORK		All figures are as of April 30, 1987.
		Includes Glendon Campus.
	(1)	1985-86 figure revised. Includes cataloged and classified government documents.
	(7)	Includes complete Law Library serials holdings; previous years' figure included partial holdings.
	(18)	Includes miscellaneous collection payments (Can. $116,186) and gifts-in-kind (Can. $62,258).
	(25)	Includes bibliographic utilities (Can. $216,910) and online searching (Ca. $25,877).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,233,235; (16) $1,588,503; (17) $129,393; (18) $178,444; (19) $3,129,575; (20) $195,871; (21) $2,094,183; (22) $2,909,762; (23) $590,952; (24) $5,594,897; (25) $1,351,996; (26) $10,272,339.

Association of Research Libraries
1527 New Hampshire Avenue, N.W., Washington, D.C. 20036 (202) 232-2466

April 14, 1988

To: Directors of ARL Libraries

From: Nicola Daval, Information Officer

Re: Library expenditures as percentage of university expenditures

The enclosed tables display the 1986-87 educational and general expenditures of the parent institutions of ARL university libraries. Also shown is the percent of each university figure that is represented by the institution's total library expenditure as reported to the 1986-87 ARL Statistics. The data are arranged both alphabetically by institution and in rank order by percent.

Caution should be used in interpreting the percentages as shown, because the university expenditure figures are not entirely comparable to those for the libraries. For example, the university figures include outlays for fringe benefits and maintenance of facilities; most ARL library figures do not include such expenditures. Definitions for the library expenditures can be found in the ARL Statistics questionnaire (p. 55-58 of the 1986-87 ARL Statistics). Definitions for the university reports are in the Department of Education Center for Statistics form, ED (CS) Form G-50-14P-F, Integrated Postsecondary Education Data System (IPEDS): Finance FY 1987. ARL used the figure reported on Line 12, column 3 of Part B.

We hope you find this "special report" useful. Please let me know if you have any comments about the data or the way they are displayed.

Enclosure
cc: Complimentary Statistics mailing list

0958N

LIBRARY EXPENDITURES AS PERCENTAGE OF UNIVERSITY EXPENDITURES
1986-87 (Alphabetically Listed)

Institution	Educational and General Expenditures (U.S. $)	Total Library Expenditures (U.S. $)	Library Expenditures as Percentage of E&G
Alabama	$137,189,110	$ 5,244,022	3.8%
Alberta	192,833,407	11,785,086	6.1%
Arizona	378,678,000	11,807,837	3.1%
Arizona State	266,981,230	11,436,506	4.3%
Boston	399,193,025	8,990,001	2.6%
Brigham Young	U/A	7,957,247	U/A
British Columbia	163,591,384	11,893,424	7.3%
Brown	157,730,123	8,225,474	5.2%
Calif., Berkeley	591,645,708	26,998,169	4.6%
Calif., Davis	439,201,602	12,808,628	2.9%
Calif., Irvine	260,528,797	9,838,430	3.8%
Calif., Los Angeles	833,581,262	29,428,949	3.5%
Calif., Riverside	116,086,291	6,629,959	5.7%
Calif., San Diego	414,303,175	11,967,176	2.9%
Calif., Santa Barbara	207,621,365	10,376,881	5.0%
Case Western	192,062,085	5,884,392	3.1%
Chicago	347,001,261	13,424,913	3.9%
Cincinnati	294,631,862	10,767,582	3.7%
Colorado	227,247,847	7,181,127	3.2%
Colorado State	198,947,000	5,650,936	2.8%
Columbia	590,147,000	20,008,645	3.4%
Connecticut	205,080,045	8,701,223	4.2%
Cornell	532,655,365	17,517,507	3.3%
Dartmouth	145,623,000	6,438,581	4.4%
Delaware	189,140,092	7,362,963	3.9%
Duke	308,348,000	11,398,777	3.7%
Emory	224,615,449	9,061,297	4.0%
Florida	576,564,862	10,952,533	1.9%
Florida State	178,519,149	6,657,342	3.7%
Georgetown	236,276,000	9,149,465	3.9%
Georgia	363,656,203	10,609,060	2.9%
Georgia Inst. of Tech.	213,876,364	4,154,159	1.9%
Guelph	75,010,293	4,487,507	6.0%
Harvard	689,802,896	34,792,740	5.0%
Hawaii	218,081,565	8,035,702	3.7%
Houston	103,393,281	5,945,170	5.8%
Howard	227,440,644	10,045,135	4.4%
Illinois	523,872,274	15,346,678	2.9%
Indiana	289,558,360	12,935,746	4.5%
Iowa	310,209,873	9,829,382	3.2%
Iowa State	303,349,983	6,449,772	2.1%
Johns Hopkins	473,409,000	10,831,473	2.3%
Kansas	329,451,146	10,197,931	3.1%
Kent State	106,942,050	6,377,416	6.0%
Kentucky	301,876,746	8,282,161	2.7%
Laval	199,722,835	8,466,612	4.2%
Louisiana State	191,304,450	8,095,082	4.2%
McGill	135,330,099	10,982,860	8.1%
McMaster	133,827,378	6,486,525	4.9%
Manitoba	143,967,928	6,241,520	4.3%
Maryland	357,836,608	10,934,347	3.1%
Massachusetts	238,433,078	9,825,395	4.1%
MIT	359,896,000	11,055,000	3.1%

U/A - Unavailable